SPECIAL SHROOM ISSUE!!!

HIGH TIMES

K48427

OCTOBER 1987

$3.95
CANADA $4.50

SAGE OF SOMA

THE MAGICAL MUSHROOM QUEST OF R. GORDON WASSON 1899-1987

GROWING GUIDE: SHROOMS VS. POT

BASEBALL FEVER: IT'S SICK!



0 48427 10
735875

Indoor Sun

ENERGY EFFICIENT GROW LIGHTS

METAL HALIDE—(balanced growing spectrum)

All systems include an assembled ballast, bulb, reflector, 15′ lamp cord and 8′ power cord.

- 1000 watt DELUXE—Choice of our 46″ polished aluminum super reflective hood (high temp. white enamel available on request) or our 20″ adjustable white enamel reflector. Ventilated ballast box with a high quality 6-outlet power supply with a lighted on/off switch and a 15 amp circuit breaker. System includes a 110,000 lumen—12,000 hr. bulb $184.50
  To upgrade to our 125,000 lumen—12,000 hr. Superbulb . . . . . Add $15.00
- 1000 watt STANDARD—18″ high temp. white enamel reflector. Ventilated ballast box. System includes a 110,000 lumen—12,000 hr. bulb $167.50
  To upgrade to our 125,000 lumen—12,000 hr. Superbulb . . . . . Add $15.00
- 1000 watt ECONOMY—2′x3′ polished aluminum reflective hood (not shown). Assembled open ballast. System includes a 110,000 lumen—12,000 hr. bulb $144.50
  To upgrade to our 125,000 lumen—12,000 hr. Superbulb . . . . . Add $15.00
- 400 watt DELUXE—14″ high temp. white enamel reflector. Ventilated ballast box with a high quality 6-outlet power supply with a lighted on/off switch and a 15 amp circuit breaker. System includes a 34,000 lumen—20,000 hr. bulb $134.50
  To upgrade to our 40,000 lumen—20,000 hr. Superbulb . . . . . Add $10.00
- 400 watt STANDARD—14″ high temp. white enamel reflector. Ventilated ballast box. System includes a 34,000 lumen—20,000 hr. bulb $124.50
  To upgrade to our 40,000 lumen—20,000 hr. Superbulb . . . . . Add $10.00
- 400 watt ECONOMY—2′x3′ polished aluminum reflective hood (not shown). Assembled open ballast. System includes a 34,000 lumen—20,000 hr. bulb $109.50
  To upgrade to our 40,000 lumen—20,000 hr. Superbulb . . . . . Add $10.00

HIGH PRESSURE SODIUM—(red orange spectrum)

Completely assembled. All systems include a covered ventilated ballast, bulb, reflector, 15′ lamp cord and 8′ power cord.

- 1000 watt DELUXE—Choice of our 46″ polished aluminum super reflective hood (high temp. white enamel available on request) or our 20″ adjustable white enamel reflector. 5 KV pulse rated socket. Includes 140,000 lumen—24,000 hr. Sodium bulb $269.50
- 400 watt DELUXE—14″ white enamel reflector. Includes 50,000 lumen—24,000 hr. Sodium bulb $189.50
- MINI-MIGHT GROW LIGHT—Our compact powerful (16,000 lumens) grow light employs a highly efficient High Pressure Sodium lamp (3 year bulb life) and a self-contained Transformer-Ignitor. Costs only 15¢ a day (18 hours on) or about $4.50/month to operate. 15″ reflector—good for 3′x3′ area. Sale priced at $99.00+$5.00 shipping, anywhere in U.S.A. $99.00

LOW PRESSURE SODIUM—(our most efficient light)

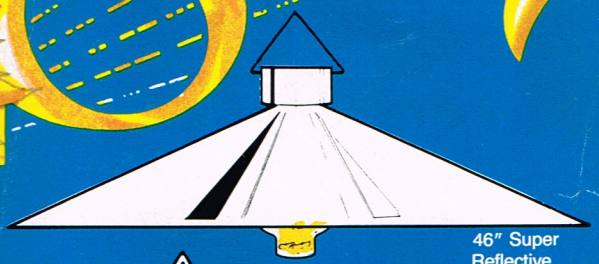
- 180 watts produce 33,000 lumens. Great for flowering. Excellent for side light. Deluxe fixture. Ventilated ballast box $195.00

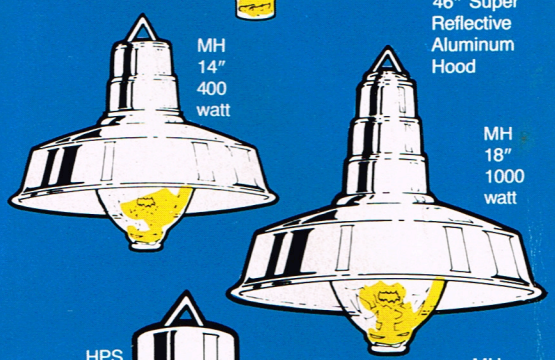
ACCESSORIES:

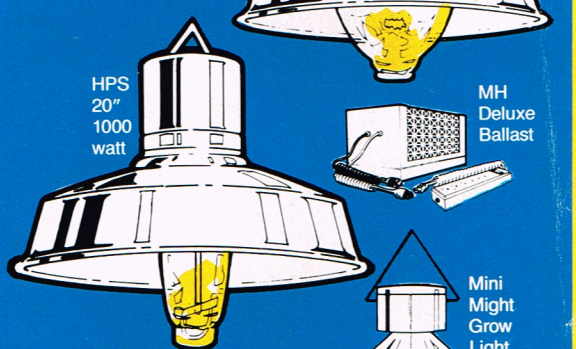
Replacement light bulbs available for all our systems at our low everyday prices.

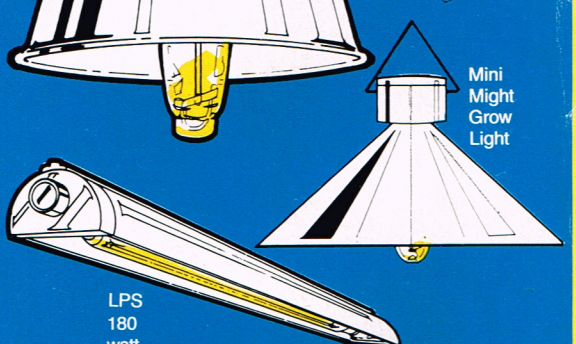
- 15 amp Paragon timer (works on all our systems) $14.95
- CO_2 Regulator/Distributor—Maintains CO_2 at a constant level while the light is on to promote up to 25% increase in growth. For growing areas 25 sq. ft. to 1000 sq. ft. Includes all gauges and distribution lines. Plugs into your light's timer (tank not included) . . . . . Sale Priced $139.00
- Solar Shuttle™ Track—moves your lamp quietly and efficiently back and forth above your plants on a 6-foot track in 40-minute cycles increasing the coverage of your lamp $99.00
- Solar Shuttle™ Extender—adds another 6-foot tract to your Solar Shuttle™ so you can run two lights off of one shuttle $39.95
- Green Leaves Nutrient—All purpose liquid nutrient. Ideal for all stages of plant growth. Use with soil or hydroponic systems.
  - 12-oz. Bottle $3.95
  - 1 Gallon $19.95

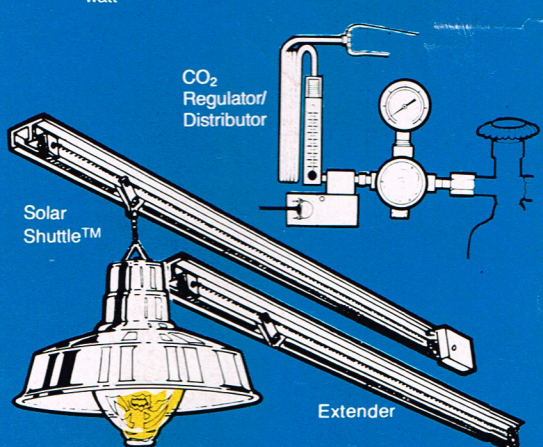
  Grow and Bloom Nutrient in granular form available on request.











ONE YEAR PARTS & LABOR GUARANTEE • 30 DAY MONEY BACK GUARANTEE • MOST ORDERS SHIPPED IN 24 HOURS
C.O.D. ORDERS WELCOME • NO DEPOSIT REQUIRED
QUANTITY PRICES AVAILABLE • CALL FOR FREE CATALOG.

ESU INC
ENERGY SAVERS UNLIMITED, INC.
22138 SOUTH VERMONT AVE. #C, TORRANCE, CA 90502
Toll Free Outside California (800) 421-2994 In California Call Toll Free (800) 538-3400

Prices do not include shipping.

VISA MasterCard

GET THINGS GOING WITH FAST ONES™

STIMULANTS, DIET AIDS SLEEPING AIDS

BEFORE!



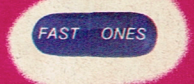
AFTER!



FREE 100 #30
With any purchase. Send $3.00 additional to help cover shipping and handling.

LOWEST PRICES ANYWHERE
WE WILL MEET OR BEAT ANY REASONABLE PRICES BY 10%
ORDERS SHIPPED IN 24 HOURS
100% GUARANTEE

FAST ONES™ "Super Strength" — SALE
1000 ~~$39.95~~ $29.95
100 ~~$9.95~~ $6.25



"FREE SAMPLES" CODE #30 350 MGS CAFFEINE

FAST ONES™ FIGHTS THAT DROWSY FEELING BY IMPROVING YOUR STAMINA, COORDINATION, CONCENTRATION!

FAST ONES™ NEVER LETS YOU MISS THOSE SPECIAL MOMENTS!

FAST ONES™ GIVES YOU EXTRA STAMINA TO LOSE THOSE UNWANTED POUNDS AND INCHES THAT MAKE YOU FEEL SO UNATTRACTIVE AND UNDESIRABLE!

FAST ONES™ LETS YOU LIVE A MORE EXPERIENCING LIFE!

CHOOSE FROM A WIDE VARIETY TO GET YOUR EXACT TYPE AND STRENGTH YOU PREFER. THAT'S SOMETHING STORES CAN'T DO!

NOTE: SAMPLES ARE FREE BUT WE ASK THAT YOU ENCLOSE $1.50 PER SAMPLE TYPE YOU WANT TO COVER SHIPPING AND HANDLING CHARGES. (EXAMPLE 3 SAMPLES TOTAL $4.50
NOTE: EACH SAMPLE HAS 5 PILLS ENCLOSED.

NOT SURE? SAMPLE PACK

MAXI PACK
1000 TABLETS & CAPSULES
TOTAL/10 TYPES
$42.50
CODE #26

MINI PACK
500 TABLETS & CAPSULES
TOTAL/5 TYPES
$22.50
CODE #31

INGREDIENTS MAY VARY

EXTRA STRENGTH



1000 | 100
$28.50 | $6.25
CODE #3
300 MGS CAFFEINE



1000 | 100
$28.50 | $6.25
CODE #4
325 MGS CAFFEINE



1000 | 100
$32.50 | $7.00
CODE #8
357 MGS CAFFEINE

HANGOVER HELPER
"RELIEF FROM HANGOVERS"



CODE #7
45 TABLETS $6.95
90 TABLETS $12.95
180 TABLETS $24.95
"FREE SAMPLES"

REGULAR STRENGTH
225 MGS CAFFEINE
CODE #2

"FREE SAMPLES"



1000 | 100
$19.95 | $5.95

MEDIUM STRENGTH



1000 | 100
$22.50 | $6.25
CODE #5
200 MGS CAFFEINE



1000 | 100
$22.50 | $6.25
CODE #1
210 MGS CAFFEINE

MILD (THICK)



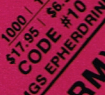
1000 | 100
$17.95 | $6.50
CODE #9
85 MGS CAFFEINE

CLEAR UPS (THIN)



1000 | 100
$17.95 | $6.50
CODE #10
25 MGS EPHEDRINE

SURE CURE II DIET AID
APPETITE SUPPRESSANT



1000 | 500 | 100
$38.95 | $22.50 | $9.95
75 MGS P.P.A.
(TIME RELEASED) #24

NIGHTY NIGHT



100
$9.95
CODE #25
50 MGS DIPHENHYDRAMINE

Orders Shipped in 24 Hours!

(ORDER FORM) CALL TOLL FREE 1-800-634-PILL

Sub-Total
Add 6.5% Tax (CA Res.)
Shipping $ 3.00
Total

PRODUCT NUMBER
ECONOMY SIZE 1000
500
100
QUANTITY

"PLEASE PRINT"

SEND ORDER TO:
Name
Address
City
State
Zip
Phone ( )
CODE

FREE INFORMATION
(213) 376-7422

PAYMENT:
- MONEY ORDER
- PERSONAL CHECK (MUST BE BANK PRINTED WITH THE SHIP TO ADDRESS, ACCOUNT MUST BE 6 MONTHS OLD. NO CHECKS OVER $50.00. PAYMENT TO ***20TH CENTURY DISTRIBUTORS***)
- C.O.D. (CASH ON DELIVERY) (PHONE IN ONLY)
- ALL ORDERS IN US FUNDS

Offers subject to change without notice. Take only as directed. Read all package statements, no sales to minors or where prohibited by law. The advertised products have various levels of non-controlled ingredients. O.T.C.'s Not to be Mixed with Alcohol.

RUSH ORDER TO:
20th Century Dist.
1525 Aviation Blvd. #A177
Redondo Bch., CA 90278

NOTE

Our products bear our trademark. They cannot be confused with any other product on the market.Any attempts to offer these products for sale as a controlled substance or prescription drug may be a crime. This may result in criminal prosecution. Compliance with any law is the purchasers responsibility. **Caution:** Individuals under medical care sould consult their physician.

When Discretion Is Your Growing Concern.



Indoor Gardening Made Easy. With URBAN PLANTATION's™ Innovative new packaging in hydroponics or soil, you'll be a successful CLOSET FARMER™. With one toll free phone call you'll have everything you need to grow for a full year. Hydro Willie has packaged a superbly designed hi-tech growing system. Your choice of the 175w Metal Halide (15,000 lumens), or 150w High Pressure Sodium (16,000) lumens comes with a 15" reflector and an 8' power cord. In addition there is the standard 160w Full Spectrum side lighting, on wheels and easily moveable. The CLOSET FARMER is discreetly enclosed in a stylish oak finished cabinet that will enhance your home. Inside you'll find an amazing 27 cu. ft. of energy efficient growing space, designed to produce results that will rivel mother nature. With 15 minutes weekly maintainance you can get 100% results within 3 months from seed.

CLOSET FARMER™ kit includes:

- Cabinet—63" x 33" x 23"
- Mylar Reflection & Light Sealing
- Light Fixtures & Spectra Lights (spectrum of sunlight)
- 24 hr. Timer, Thermostat & Exhaust Fan
- Pots & Drain Pans
- Assembly & Growing Instructions
- One year Supply of Nutrients
- All Necessary Hardware & Cords

The CLOSET FARMER™ System II—**$449.00**

The Deluxe CLOSET FARMER System II with CO_2 enrichment & 4 hydro modulars—**$745.00** (electricity costs average $5.00/$6.00 per month)

The original CLOSET FARMER System I,™ with 240w Spectra light is still available—**$399.00**

The Deluxe CLOSET FARMER System I with CO_2 enrichment and 4 hydro modulars—**$699.00** (electricity costs average $3.00/$4.00 per month)

URBAN PLANTATION™ Accessories

The CLONING FARMER™ Kit will turn any existing CLOSET FARMER into an efficient cloning machines. Kit includes cloning modules, pump, pH kit, timer, a one year supply of rock wool and growing nutrients.

- 12 Clone Model—**$129.00**
- 20 Clone Model—**$165.00**

Hydro kits for the Deluxe Systems include four AQUAFARMS™ (a four module growing system) growing medium, pump, pH kit, and a year's supply of nutrients. Four AQUAFARMS—**$195.00**

The CO_2 ENHANCEMENT KIT increases yield by 25%-30%, and speeds growing time. Kit includes industrial CO_2 flowmeter, short range timer, solenoid valve. (Tank sold separately—$99.00.)—**$158.00**

CUSTOM FARMER™ Kits and Consultation Services

Hydro Willie can outfit any closet or room in your home—Kits start at **$200.00** (and up).

Hydro Willie is the creative force behind URBAN PLANTATION and the CLOSET FARMER. With 11 years experience as an authority on hydroponic gardening and agriculture he is committed to providing you with the finest quality, easy to operate products, at fair prices with the fastest delivery. He is ready to answer all your questions and to support your URBAN PLANTATION purchases with the friendliest and most dependable service in the indoor growing industry.

Our Guarantee To You

URBAN PLANTATION offers you the finest self contained growing systems ever developed. Following the easy set up a mere 15 minutes of weekly maintenance can yield 100% results within 3 months.

All our lamps carry a one year warranty. All other products carry a full 2 year guarantee. Ask for our free catalog, compare prices, save time, energy, and money.

Stop into our showroom or write to:

URBAN PLANTATION™

#6 Bolinas Road, Fairfax, CA 94930

For Ordering or Free Catalog Call Toll Free

VISA **800-332-7555** MasterCard

California Residents Call 415/258-9226

Receive a free URBAN PLANTATION "T" Shirt with every CLOSET FARMER. California residents please add 6% sales tax. Money orders, credit card and C.O.D. orders shipped witin 48 hrs. C.O.D. orders require a 50% deposit. Above prices do not include shipping. Personal checks held for bank clearance. Dealer inquiries are welcome. AQUAFARMS manufactured by General Hydroponics.



NO. 146 ● OCTOBER 1987

CONTENTS

FEATURES ★ COLUMNS ★ DEPARTMENTS

FUNNY BOOKS GUIDE
by John Holmstrom 33
The funniest above and underground comix books as reviewed by our resident cartoonist.

SAGE OF SOMA
by Peter Gorman 37
A tribute to the late godfather of the psychedelic revolution, R. Gordon Wasson.

WASSON'S FIRST VOYAGE
by John Allen 40
On June 29, 1955, Wasson became the first white man to partake of magic mushrooms in an ancient Aztec rite.

POT VS. SHROOMS
by Kyle Roq and Flick Ford 42
The pros and cons of growing pot and shrooms indoors.

LITTLE FLOWERS OF THE GODS
by Richard Schultes and Albert Hofmann 45
An excerpt from the definitive guide to the origins of hallucinogenic use, written by two leading experts.

A STORY WITH FEW MORELS
by Mel Zimmer 56
The Black Morel is one of the tastiest morsels known to man. They are also extremely hard to find.

MINDLESS TEENAGE BRAINROT
by Steve Hager 58
Bill Kelly has been playing garage music over the airwaves longer than any deejay in America, so it's about time somebody interviewed him.

BASEBALL FEVER: IT'S SICK
by Jonathan Gitlin 60
HIGH TIMES salutes the 1987 World Series by blasting the most hypocritical game on earth.

EDITOR'S NOTE
by John Howell 6

NORMLIZER
by Jon Gettman 25

ZOË
by Milton Knight 52

HIGH ART
by Carlo McCormick 54

ASK ED
by Ed Rosenthal 62

THE DOPE ON SOUTH AFRICAN
compiled by Ed Rosenthal 64
Sativa strains are hot, and South African dope has never been more popular. With the help of a few charts, this article explains why.

POTTING SOIL
by Dennis R. Pittenger 66
An informative guide to selecting the best soil mix.

HIGH 5IVES
by John Leland 85

RUSHES
by Jim Poling 86

TOP 100
by John Holmstrom 97

ON THE COVER: *AMANITA MUSCARIA,* The mushroom R. Gordon Wasson credited with instilling man with his first religious experiences. Photo by Dr. W. Rauh, courtesy of Alfred van der Marck Editions.

LETTERS 14

HIGHWITNESS NEWS
Edited by John Holmstrom 19
The wildest and wackiest in the world of drugs, as compiled by our crackpot staff in a catatonic state of deadline frenzy.

TRANS-HIGH MARKET QUOTATIONS 26

TRANS-HIGH MARKET ANALYSIS LETTERS 27

CENTERFOLD 50

CLASSIFIED 78

BOOKSTORE 94



HIGH ★ TIMES

PUBLISHER
ROBERT ARONSON
EDITOR-IN-CHIEF
JOHN HOWELL
EXECUTIVE EDITOR
STEVEN HAGER
ART DIRECTOR
DAVID ALLEN
SENIOR EDITOR
DEAN LATIMER
MANAGING EDITOR
JOHN HOLMSTROM

ASSOCIATE EDITOR
ED ROSENTHAL
INDOOR GARDENING EDITOR
JORGE CERVANTES
CANNABIS CONNOISSEUR
D.C.
CONTRIBUTING EDITORS
ROBERT CONNELL CLARKE, THE GENERAL, PETER GORMAN, JOHN LELAND, CARLO McCORMICK, JIM POLING, MICHAEL WELDON, BRADFORD X

DESIGN ASSOCIATES
MAXI, BRIAN SPAETH
TYPESETTING
BARBARA BARG
STRONG SILENT TYPE

CONTRIBUTING ARTISTS AND PHOTOGRAPHERS
FLICK FORD, ANDRE GROSSMANN, GREGORY HERGERT, DICK HOOLE, KATE KELLER, MILTON KNIGHT, JAMES ROMBERGER, JONATHON ROSEN, JEFF VAUGHAN

CONTROLLER
SHEILA AVON
CIRCULATION MANAGER
CAROLYN DEDERICK
PRODUCTS MANAGER
SCOTT DANAHY
STAFF
TIFFANY ANN, JONATHAN DAVID, deerfrance, LISA KAY, COLIN MINER

ADVERTISING
EAST COAST
SANDY ROSEN, **MANAGER**
SHERRY LUTZ
PROMOTION DIRECTOR
MONIQUE COPELAND
NATIONAL ADVERTISING OFFICE
211 East 43rd Street
New York, NY 10017 (212) 972-8484
WEST COAST
STEVE BECKER, **MANAGER**
WEST COAST ADVERTISING OFFICE
P.O. Box 33-Suite 373
Long Beach, CA 90801 (213) 493-3714

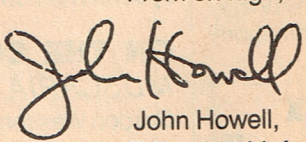
FOUNDING EDITOR
THOMAS KING FORCADE, 1945–1978

October 1987 • No. 146 • HIGH TIMES (ISSN #0362-630X) is published monthly by Trans-High Corporation, Robert Aronson, President • Mail subscriptions (payable in U.S. funds) and changes of address (please include most recent mailing label) to P.O. Box 410, Mt. Morris, IL., 61054. • Allow 6 to 8 weeks for delivery of first issue or for change of address • Subscriptions in the United States: 12 issues for $29.95, 24 issues for $54.95 • Single copy price: $3.95 • In Canada: 12 issues for $37.45, 24 issues for $68.95 • All other countries by surface mail: 12 issues for $37.45 • All other countries by airmail: $67.00 • Offices at 211 E. 43rd St., New York, NY 10017 • Second class postage paid at New York, NY, and at additional mailing offices • Manuscripts must be accompanied by a self-addressed stamped envelope • All contributions will be carefully considered, but the publisher and editors assume no responsibility for loss or injury to unsolicited material • Copyright ©1987 by Trans-High Corporation. Nothing in this publication may be reproduced in any manner, either in whole or in part, without specific written permission of the publisher. All rights reserved. "High Times" is a registered trademark. HIGH TIMES and Trans-High Corporation assume no responsibility for any claims or representations contained in this magazine or in any advertisement, nor do they encourage the illegal use of any of the products advertised herein. **All advertising and advertised products void where prohibited.** Postmaster: Please send address changes to HIGH TIMES, P.O. Box 410, Mt. Morris, IL., 61054.

EDITOR'S NOTE

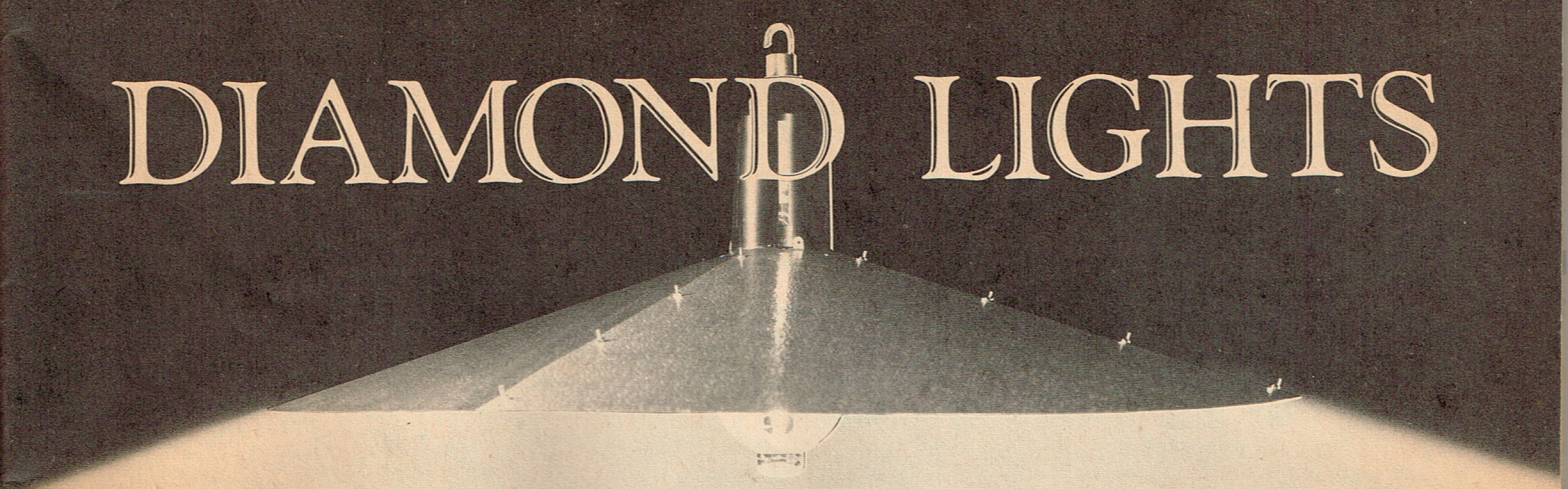
● **Our Special Mushroom Issue is dedicated to R. Gordon Wasson,** the man without whom the psychedelic revolution might never have taken place. This true-blue guru, who died at 88 years of age last December, was the spiritual Columbus of the rainbow-hued American dream. Banker, scholar, adventurer, psychic voyager, Wasson's activities established a model that later researchers would follow, as did his friend and peer Dr. Albert Hofmann, the discoverer of LSD. At one time, when Wasson published the story of his psychedelic trips under the guidance of a Mexican shamaness in *LIFE* magazine (1957), Wasson was the best-known head in the world. This issue is dedicated to his righteous spirit. ● Seeing a revelation like Wasson's printed in a mainstream publication is hard to imagine in these days of drug war sensationalism. That's why HIGH TIMES exists: to bring you the straight truth about the positive, spiritual aspects of psychoactive substances. As you leaf through our Mushroom Special, we hope you'll have an even more enlightening time than the one we bring you month after month. ● One caution: **DO NOT INGEST MUSHROOMS** without the proper information (a good field guide, an experienced tripper). While shrooms can take you higher and higher, they can also put you away. Handle with care. ● This is my last Editor's Note from my perch on high. When I came to HIGH TIMES three years ago, my mandate was to bring the magazine into synch with the realities of the '80s. Without compromising the original vision of HIGH TIMES, I think I've done that job, and I'm happy to see that, to judge by our growing subscriptions and newsstand circulation, the readers think so too. Happy trails. ●

From on high,



John Howell,
Editor-in-chief

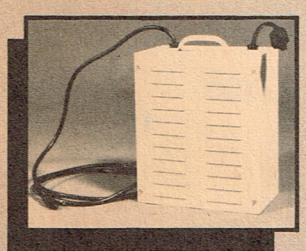
DIAMOND LIGHTS

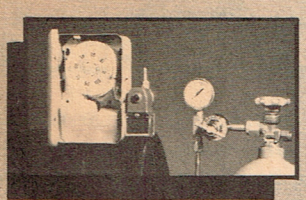




HEAVY DUTY BALLAST ENCLOSER

- Ventilated and double paneled for maximum cooling and long life
- A unique molded plug between lamp and ballast for easy handling





CO_2 ENRICHMENT

We've kept it simple and functional

- Accurate timing and flow adjustment
- Dramatic increases in growth and flowering

$158.... TANK NOT INCL.

45" REFLECTOR HOOD

- Unlike any other
- Adjustable Focus 8 × 8 to 12 × 12
- Exclusive TEXTURWHITE™ finish for amazingly even light distribution

21" ALZAK™ ALUMINUM HOOD

- Parabolic design
- Brightest, most concentrated light on the market



THE "AQUAFARM" MODULAR SYSTEM

An expandable hydro system that allows you to start with one module then add up to as many as 10 ... a unique aeration system makes it the STATE OF THE ART in modular hydro ... it will produce and yield faster than any other modular system on the market. It is virtually problem free and is perfectly suited for the "Sea of Green" method of gardening ... We welcome comparison.

LIGHT SYSTEMS		AQUAFARM SYSTEMS	
1000 Super Halide	$198.	Single	$ 58.
1000 H.P. Sodium	258.	4 Module	198.
400 Halide	138.	6 Module	295.
400 H.P. Sodium	188.	8 Module	389.
Suncircle™ 2 light	189.	10 Module	450.
Suncircle™ 3 light	248.		
Solar Shuttle™	95.		

LIGHTS INCLUDE:

- Choice of hoods
- 20' 600v lamp cord
- 8' power cord
- 2 yr. Guarantee

INCLUDES:

- Grorox™ Growing Medium
- Pump
- Grow & Bloom Nutrients
- Complete instructions and tips on growing

COMPARE OUR UNIQUE FEATURES, DESIGNS, MATERIALS

"We are different than the rest"

FOR ORDERING or FREE CATALOG

TOLL FREE 800-331-3994

In California 415-459-3994

DIAMOND LIGHTS II
713 Mission Avenue
San Rafael, CA 94901

VISA MasterCard

- Money order, credit card, COD orders shipped within 24 hours
- Prices do not include shipping
- Dealer inquires welcome

HYDROFARM®

- For fast convenient delivery or factory store sales, call/visit:

APPLIED HYDROPONICS, INC.

Western U.S.-S.F. 3135 Kerner Blvd. San Rafael, CA 94901 1-800-634-9999

Eastern U.S.-Phila. 208 Route 13 Bristol, PA 19007 1-800-227-4567

- For walk-in buying, visit your nearest authorized retailer:

California

Applied Hydroponics—L.A.
4527 San Fernando Rd.
Glendale, CA 91204
(818) 243-0068

Colorado

Rocky Mountain Lighting & Hydroponics
7100 North Broadway, Suite 5-S
Denver, Colorado 80221
(303) 428-5020

Illinois

Chicago Indoor Garden Supply
108 N. Barrington Rd.
Streamwood, IL 60107
(312) 289-4545
Chicago South; Call
(312) 877-1616

High Tech Indoor Gardening
2164-B. Washington Rd.
Washington, IL 61571
(309) 745-5813

Indiana

Worms Way Organic Indoor/Outdoor Garden Supply
4620 S. State Road 446
Bloomington, IN 47401
(812) 837-9901

Michigan

Indoor Garden Center Inc.
8539 Lilley Rd.
Canton, MI 48187
(313) 451-0797

New York

Indoor Sun Systems
61 Allwood Ave.
Central Islip, NY 11722
(516) 234-2260

Ohio

Waterbeds and Stuff
3788 W. Broad St.
Columbus, OH 43228
(614) 276-4722
Plus five other Central Ohio locations

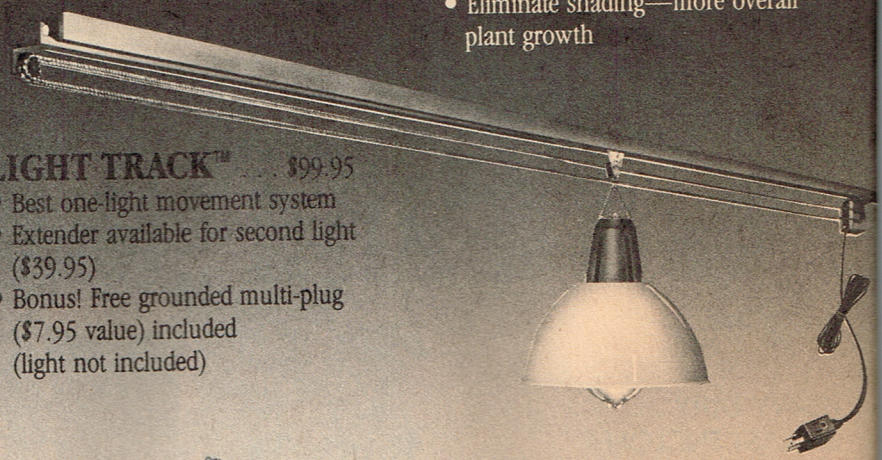
Texas

Sun Belt Garden Supply
2669 Myrtle Springs Ave., Ste. 104
Dallas, TX 75220
(214) 350-9246

Prices, special offers, and hours may vary from store to store.

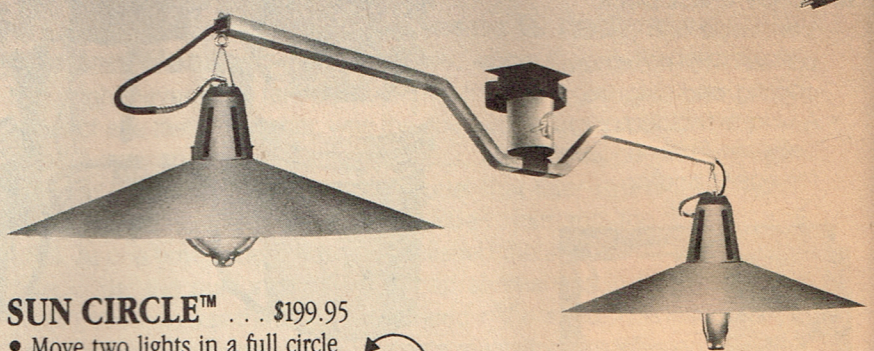
Light Movers

- Increase production
- Grow more plants with the same light
- Taller plants; get 6-12″ closer to your light
- Eliminate shading—more overall plant growth



LIGHT TRACK™ . . . $99.95

- Best one-light movement system
- Extender available for second light ($39.95)
- Bonus! Free grounded multi-plug ($7.95 value) included (light not included)



SUN CIRCLE™ . . . $199.95

- Move two lights in a full circle
- More coverage than any other light mover
- Blend halide and sodium lights for optimum flowering (lights not incl.)



CYLINDERS OF SUNLIGHT™

Recommended for seedlings and cutting starts, low ceilings. Same spectrum as the sun. Twisted for more light.
Box of six 48″ tubes . . . $69.95

HYDROFARM®

Why buy from us? Applied Hydroponics has been the ***leading manufacturer*** of indoor gardening equipment since 1977. We're the ***oldest*** and the ***largest.*** Time-tested and proven by tens of thousands of satisfied **High Times** buyers, our record speaks for itself. Top quality, reliability, and personal service backed by our full ***two-year guarantee,*** the longest on the market, makes us the only answer for those who want to grow.

ITEM	PRICE EA.	QTY.
Hydrolite Super ☐ 21″ ☐ 45″ ☐ coated	$199.95	
Hydrofarm Quad	$199.95	
Hydrolite 400	$139.95	
Hydrofarm Solo	$ 64.95	
HPS 1000	$264.95	
HPS 400	$189.95	
CO_2 System	Sale $149.95	
Light Track	$ 99.95	
Sun Circle	$199.95	
Cylinders of Sunlight, 6pk/48″	$ 69.95	
15A Timer (☐ Free with light & garden)	$ 19.95	
1000W Super bulbs ☐ clear ☐ coated	61.95	
Grow Nutrient (20-6-16) 1 lb./100 gal	$ 12.00	
Bloom Nutrient (10-30-18) 1 lb./100 gal	$ 13.00	
	SUBTOTAL	
	Ca. & Pa. Res. add 6% tax	
	TOTAL	

Two Year Guarantee (Bulbs One Year)

Money orders, cashiers checks, COD & credit card orders shipped immediately. All items shipped freight collect in plain boxes.

☐ Visa ☐ Mastercard Exp. Date _____

_____

Name _____

Address _____

City/State/Zip _____

APPLIED HYDROPONICS, INC.

WESTERN U.S.
3135 Kerner Blvd.
San Rafael, CA 94901
1-800-634-9999

EASTERN U.S.
208 Route 13
Bristol, PA 19007
1-800-227-4567

HYDROFARM®

GROW WITH THE BEST

NEW! Hydrolite™ Super

The highest quality grow light system made.



High Times says:

"Each Hydrofarm Quad is good for a dozen bushy plants. Grow twice as fast, get bigger yields."

- **1000 watt full spectrum** clear Super Halide. 125,000 lumens.
  Option: Coated bulb, no extra charge.
- **Choose:** 21″ or 45″ electro-white reflector. Both designed for maximum reflection and even diffusion—feature full range adjustability for all growing situations.
- **Heavy Duty** steel ballast cabinet.
  Double-wall construction.
  Watersafe louvered design.
  Completely pre-wired.
  UL components.
- **Rugged and dependable** construction you can count on for years to come.

$199.95/Super light

- **Improved!** Most popular grower-proven hydroponic system now even better.
- **Automated flush** for more nutrient delivery. 8′x8′ as shown. For large multi-system areas, sets up in row, too (3′x9′).



- **Geolite™ rock** retains optimum nutrient solution and air between cycles. Anchors plants. Reusable. Ours, exclusively!
- **Nutrients**—Grow and Bloom—specifically blended for each stage of your plant's life. System includes all of above plus growing manual.

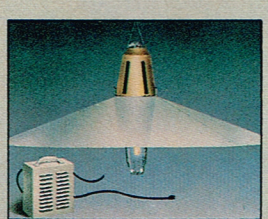
$199.95/Quad system

Flowering Lights

HPS 1000 ▶

- 140,000 lumen High Pressure Sodium
- 45″ adjustable reflector.
- louvered HPS ballast

$264.95



HPS 400 (not shown)

- 50,000 lumens
- 21″ reflector

$189.95

Hydrolite 400 ▶

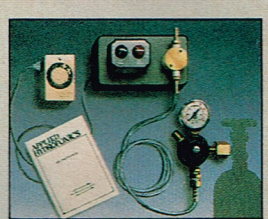
Perfect for compact areas. A 400-watt halide system with all the high quality features of our Super, including our **full-sized** 21″ adjustable reflector, etc. **$139.95**

Hydrofarm Solo ▶

Same professional-quality automated flush system as our Quad but in a single unit size, 2′x2′, includes Geolite, Nutrients, etc. **$64.95**



Carbon Dioxide (CO_2) System ◀



- **FERTILIZE THE AIR!**
- Programmable timing
- Precise metered flow
- Complete with directions (tank not included)

Doubles growth and flowering! **Sale $149.95**

FREE TIMER

($19.95 value)

with purchase of BOTH Light System & Hydroponics

◀ See Coupon

APPLIED HYDROPONICS, INC.

WESTERN U.S.—S.F.
3135 Kerner Blvd.
San Rafael, CA 94901

EASTERN U.S.—PHILA.
208 Route 13
Bristol, PA 19007

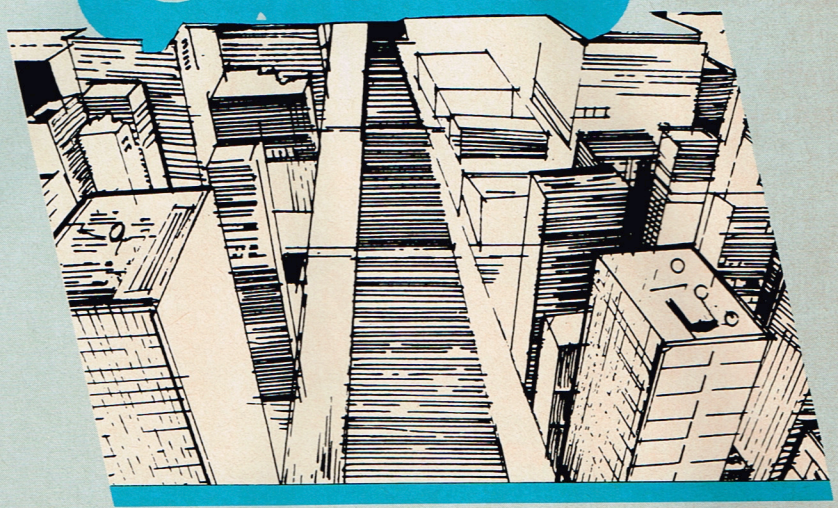
MasterCard C.O.D. VISA

Visit our Showrooms • M-F, 9-5; Sat., 10-5

FREE CATALOG AND PHONE ORDERS

TOLL FREE 1-800 → 634-9999 • WESTERN U.S.
→ 227-4567 • EASTERN U.S.

SGS GROWS



Our Chicago Branch

Superior Growers Supply is always striving to provide indoor growers with as wide a selection of products as possible. Our research department travels abroad to keep you up to date on the most recent developments in indoor growing. In order to expand and improve our products and services, we have opened another Superior Growers Supply near Chicago. As always, our Michigan location will continue its superior service, and will maintain its Toll-Free phone number. SGS hopes the cultivation of our "Chicago Branch" will help you grow too.

We are as excited about indoor growth as you are! Now that we can serve you from two locations we look forward to growing with you.

Call us for a free copy of our newest catalog.

Here are some fine SGS products:

Grow Room supplies
Lamps • Fertilizers
Light Track systems • Mylar
Hydroponic supplies • Test kits
Rockwool • CO_2 cylinders
The Gasser CO_2 System

VISA MasterCard
CODs Welcome

SUPERIOR GROWERS OF ILLINOIS, INC.
1548 Burgundy Pkwy.
Streamwood, Illinois 60103
(312) 830-3311

SUPERIOR GROWERS SUPPLY, INC.
4870 Dawn Avenue
East Lansing, Michigan 48823
(517) 332-2663

Toll Free (800) 227-0027

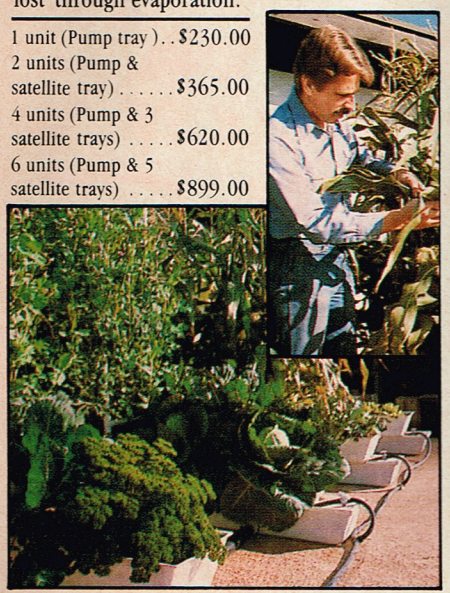
How to vastly improve your growing environment in five easy lessons.

1 Install the best growing system.

Energy Savers has spent years designing the ultimate hydroponic system (patent pending) — one with the features and qualities of a commercial unit at a size and price to suit you.

Our professional-quality growing system is bigger than others currently available, and it's expandable. Each tray is 6′ long and 1′ wide, which can hold 1 to 15 plants per tray. The hydroponic system allows you to germinate and propogate your plants right in the trays, it automatically waters and feeds plants on whatever schedule you determine, and it even refills itself automatically with water lost through evaporation.

1 unit (Pump tray) . . $230.00
2 units (Pump & satellite tray) $365.00
4 units (Pump & 3 satellite trays) $620.00
6 units (Pump & 5 satellite trays) $899.00



SPECIAL OFFER

☐ 2 units, 1 deluxe light MS1000 bulb w/46″ reflector plus 1 solar shuttle . . Regularly $663.50
On Sale $599.00

☐ 4 units, 2 deluxe lights MS1000 bulbs w/46″ reflectors plus 2 solar shuttles . . . . . Regularly $1217.00
On Sale $1099.00

☐ 6 units, 3 deluxe lights MS1000 bulbs w/46″ reflectors plus 3 solar shuttles . . . . . Regularly $1794.50
On Sale $1639.00

2 Remove the pollutants from the air.



Our Negative Ion Generator by Pulsair uses a back-and-forth emission/collection cycle that makes it extremely effective in removing smoke, dust, pollen and other pollutants from the air. The ions actually kill airborne bacteria and will remove dirt particles as small as 1/1000 micron. Will work in rooms up to 250 sq. ft. $99.00

3 Use a scientifically blended soil.

For non-hydroponic growing systems, Black Gold is the one soil for all plants. Castings of earthworms are considered the highest grade of compost.



20/20 PLANTING MEDIUM
A multipurpose planting medium for all plants, this nutrient-rich earthworm casting base is formulated with other vital ingredients for maximum plant growth. It contains natural, all organic nutrients plus slow release chemical fertilizer. The mix has excellent aeration for drainage, root development and moisture retention. Sterilized, has a pH of 6.0-6.9.

1 cubic foot (approx. 28#) $5.99
1.5 cubic feet (approx. 38#) $7.99

ALL ORGANIC PLANTING MEDIUM
This is a 100% organic planting medium for all plants. Containing no chemical fertilizers, it won't cause plant burn or tie up nutrients.

1 cubic foot (approx. 28#) $6.99
1.5 cubic feet (approx. 38#) $8.99

EARTHWORM CASTINGS
100% organic planting amendment to any soil or pre-mixed potting medium. Mineral-rich, odorless and of a viable consistency for soil mixes, can also be used to top dress existing soil.

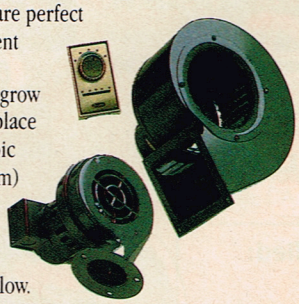
20 quart (approx. 27#) $13.95

TRY WONDER WOOL
The newest growing medium-made of molten granite.

2″x2″ Grow Cubes. . . . . 20¢ each
40 lb. bale $39.00

4 Ventilate your grow area.

Squirrel cage fans are perfect for providing efficient air evacuation and circulation in your grow area. Units can displace from 50 to 960 cubic feet per minute (cfm) for any application. Can be operated by timer or thermostat, sold below.



50 cfm	$ 29.95	265 cfm	$ 69.95
100 cfm	$ 43.95	435 cfm	$ 89.95
160 cfm	$ 54.95	960 cfm	$159.95
Thermostat Control			$ 19.95
Humidistat Control			$ 34.95

5 Protect your lighting system and monitor for smoke and fire.

The Surge Survival System and our new Smoke/Fire Detector Module can protect your lighting system from electrical disturbances and your grow room from smoke and fire damage. Avoid expensive repairs caused by electrical surges, brown-outs, electrical storms and lightning strikes.

By electronically monitoring for high and low voltage problems, the Command Module will shut down the lighting system when voltage reaches dangerous levels. Just long enough for bulbs to cool and voltage to stabilize. Then the line voltage is analyzed and the lighting system turned on if voltage is within safe limits. With the optional Smoke/Fire Detection Module, the complete lighting system will be shut down in the presence of smoke or fire. The Command Module controls an unlimited number of Remote Modules. Each Remote Module can switch one 1000 watt system at 120 volts or three 1000 watt systems at 240 volts.



Command Module with 1 Remote Module $99.00
Additional Remote Modules $29.00
Smoke/Fire Detector Module $69.00

Introducing a new product:
A perfect reflective surface for your grow area.

Mylar, 1 mil. double-sided, 99.9% reflectivity.
4 × 50 foot roll $29.00
4×100 foot roll $49.00

ESU INC IndoorSun

Energy Savers Unlimited, Inc.

22138 S. Vermont Ave. #C, Torrance, CA 90502

Call Toll Free: VISA MasterCard

Outside California (800) 421-2994
In California (800) 538-3400

See additional product listing inside front cover.

Prices do not include shipping. One year parts & labor guarantee. 30 day money back guarantee. Most orders shipped in 24 hours. C.O.D. orders welcome. No deposit required. Quantity prices available. Call for free catalog.

THE SECRET OF SUCCESSFUL INDOOR GROWING

the easy Hamilton way...

Grow bigger, healthier plants faster.

PROVEN RESULTS: Metal halide or high pressure sodium lights create the highest intensity, best quality sun's full spectrum - indoors. Fluorescent systems are weak, inefficient and do not give your plants enough light lumens and wattage for good growth.

SAVE MONEY Buy Direct from the Manufacturer!

METAL HALIDE: Best for fast plant growth.

MH 1000 Watt Basic System . . . . . (Reg. $182) **$139.95**
High quality, assembled, QUIET, open ballast; 20′ lamp cord; power cord; socket; 110,000 lumen / 12,000 hr. bulb.

MH 1000 Watt Professional System . . . . . (Reg. $210) **$165.95**
18″ Dome (for HORIZONTAL reflector or 48″ PARABOLIC add $4.95). High quality, assembled, QUIET, ventilated ballast box; 20′ lamp cord; 110,000 lumen / 12,000 hr. bulb.

MH 1000 Watt Deluxe System . . . . . (Reg. $238) **$179.95**
Choice of: HORIZONTAL reflector, 48″ PARABOLIC, 46″, 22″ adjustable Dome. High quality, assembled, QUIET, ventilated ballast box with GROUNDED 6-OUTLET, ON-OFF CONTROL, 15 AMP. PROTECTIVE CIRCUIT BREAKER; 20′ lamp cord; 110,000 lumen / 12,000 hr. bulb.

MS 1000 SUPER BULB brightest bulb; 125,000 lumen / 12,000 hrs. . . . add **$14.00**

MH 400 Watt Professional System . . . . . (Reg. $151) **$124.50**
18″ Dome (for HORIZONTAL reflector or 48″ PARABOLIC add $4.95). High quality, assembled, QUIET, ventilated ballast box; 20′ lamp cord; 34,000 lumen / 20,000 hr. bulb.

MH 400 Watt Deluxe System . . . . . (Reg. $162) **$134.50**
18″ Dome (for HORIZONTAL reflector or 48″ PARABOLIC add $4.95). High quality, assembled, QUIET, ventilated ballast box with grounded 6-outlet, on-off control; protective 15 amp circuit breaker; 20′ lamp cord; 34,000 lumen / 20,000 hr. bulb.

MS 400 SUPER BULB-brightest bulb; 40,000 lumen / 20,000 hrs. . . . . add **$10.00**

HIGH PRESSURE SODIUM: Increases budding & flowering

HPS 1000 Watt Deluxe System . . . . . (Reg. $317) **$255.95**
Choice of: HORIZONTAL reflector, 48″ PARABOLIC, 46″, or 22″ adjustable Dome. High quality, assembled, QUIET, ventilated ballast box; 20′ lamp cord; 5KV socket; 140,000 lumen / 24,000 hrs. bulb.

HPS 400 Watt Deluxe System . . . . . (Reg. $215) **$184.95**
18″ Dome (for HORIZONTAL reflector or 48″ PARABOLIC add $4.95). High quality, assembled, QUIET, ventilated ballast box; 20′ lamp cord; 50,000 lumen / 24,000 hr. bulb.

LIGHT MOVERS: More light coverage to grow more plants.

Motorized Lite Track™ - Double your light coverage **$97.95**
Best single light mover; 6′ track (EXTENDER available for second light . . . . . $38.95).

Sun Circle™ - Increases flowering by a blend of MH&HPS . . **$194.95**
Two lights rotate continuously in full circle; greatest coverage.

Whirligig™ - Eliminates hot and dark spots **$114.95**
Two lights move back & forth in a circular pattern.

HYDROPONICS: Our customers say their plant yields are three times greater and two times faster with Hamilton's automated "flood / drain" HYDROPRO system. Roots are provided maximum direct nutrition and aeration without soil.

HYDROPRO SINGLE™: Ideal up to 4 plants; 2′ x 2′ area **$59.95**
Includes: pump, grow & bloom nutrients, timer, pH test kit, Jiffy 7, manual, etc.

HYDROPRO 4™: Grow up to 16 plants; 3′ x 9′ or 8′ x 8′ **$187.95**
Includes submersible pump, grow & bloom nutrients, timer, manual and more.

CO_2 ENRICHMENT SYSTEM: Increase growth by 40% . **$137.95**

ION GENERATORS: Clean growing area of smoke, pollen & pollutants.
AirEase Ion . . . . **$49.50** **Pulsair:** generates 300% more ions **$96.50**

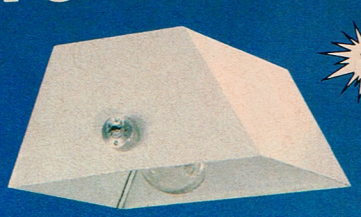
DIGITAL pH PEN: Instant accurate readings . . . . . (Reg. $97) **$69.95**

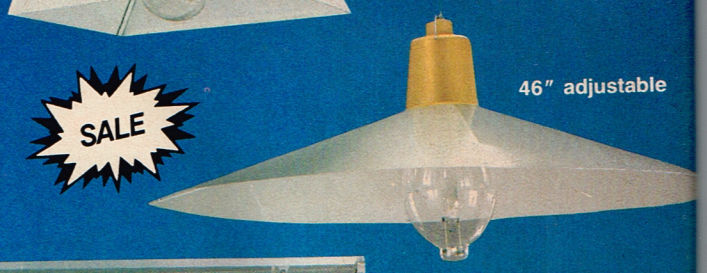
NEW **HPS BULBS - That work in metal halide systems!**
1000 watt . . . . . **$137.50** 400 watt **$67.50**

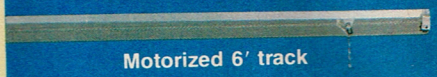
ROCKWOOL, REPLACEMENT BULBS, MYLAR, etc . . . Call for Price

FREE **INDOOR GARDENING BOOKLET**
with any system purchased

Why Hamilton's Customers are Satisfied:
- Highest quality products at lowest prices.
- Large inventory with shipment in 24 hours.
- Reliable service and 2 yr. guarantee (bulbs 1 yr.).
- 30 day money back guarantee.
- Fast C.O.D. delivery by U.P.S. - anywhere.

















FREE TIMER with any hydroponics

Visit our Los Angeles showroom.

HAMILTON TECHNOLOGY CORP.
14902 S. Figueroa Street, Gardena, CA 90248

ORDER TOLL FREE:
(800) 458-7474
(800) 635-3344 (in California)

Philadelphia. Home of soft pretzels, hoagies & HYDROFARM.

That's right! After ten years, Applied Hydroponics of San Francisco (manufacturers of HYDROFARM products) is setting up another factory in suburban Philadelphia. Why? Because our customers east of the the Mississippi have just as much right to a quick turnaround on mail and phone orders as those in the West. We take pride in our innovative product design, our high standards of quality, and our great service. Our eastern factory is just another example of our determination to serve you well.



GRAND OPENING GIVEAWAY

With every purchase of HYDROFARM products we're giving away a copy of MEGA-CROP, the latest book on increasing your yield. This offer is available in all authorized retail outlets as well as through phone and mail orders.

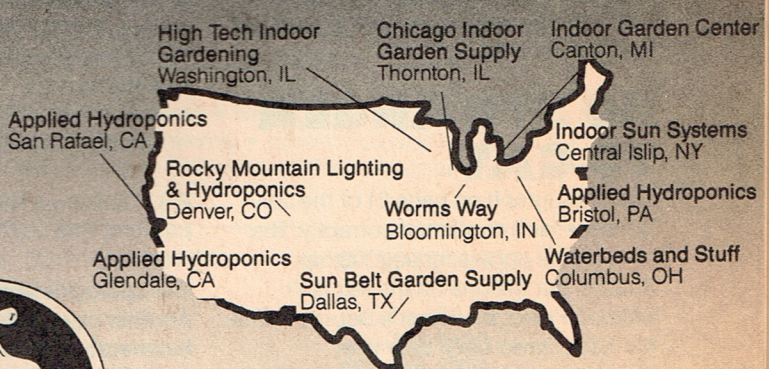


Applied Hydroponics - S.F.
3135 Kerner Blvd.
San Rafael, CA 94901
Toll free **1 (800) 634-9999**

Applied Hydroponics - Phila.
208 Route 13
Bristol, PA 19007
Toll free **1 (800) 227-4567**

If you live in the Northeast and prefer to come into the store, you'll appreciate our new retail outlet at the crossroads of I-95 and the Pennsylvania Turnpike. All our authorized retailers are listed below and in more detail on page 8 & 9.

AUTHORIZED RETAILERS



HYDROFARM®

For more product information, see our ads on pages 8 & 9.

LETTERS

GAG TOMA!

Instead of merely complaining to the FCC about TV evangelists—some of whom are corrupt—let's go after a real bullshit artist: One who speaks out obsessively and often inaccurately about what HIGH TIMES is all about. This bullshit artist is David Toma, who says that a puff of marijuana causes kids to go crazy and leap off buildings. This character charges high schools $6,000 for an appearance and totally debases any legitimate education against drug abuse.

—*D.W.*
New Rochelle, New York

TV evangelists are more than corrupt. They've had the ear of both Jimmy Carter and Ronald Reagan and have been influential in forming their anti-drug policies. Toma's power base is nothing in comparison. Getting TV evangelists off the air should be a HIGH TIMES imperative, shouldn't it?

SKULL-DRUGGERY

Lately a friend and I had an argument regarding the cover of the February '87 issue. My friend says the skull on the cover isn't made of hash. I say it is. If it is made of hash, what kind is it, and do you know the approximate weight?

—*Streaker Max*
Long Beach, California

The skull belongs to Ed Hassle, who hasn't been by the office in some time. Next time he shows up, we'll try and get the info out of him.

NO STRANGER TO GAT

The photograph on page 21 of the July '87 issue isn't captioned correctly. The man on the right is indeed Yitzhak Shamir, but the one on the left isn't Shimon Peres. It's Israel's Deputy Prime Minister, David Levy. Levy is of Morrocan origin and probably no stranger to either gat, or to kif, as hash is referred to in the Middle East. Shamir, of Polish origin, is a former underground leader and an accomplice to Israel's invasion of Lebanon in 1982. He probably doesn't get high too often. Both of these men represent the extreme right-wing Herut Party which calls for the settlement and conquest of all "Biblical Israel." They are responsible for the continued oppression and misery of many Palestinians. They are hardly the type of leaders that "...act just like us."

—*M.K.*
Toronto, Ontario

P.S.: Do I win a HIGH TIMES T-shirt for pointing this out?

Our apologies about the caption. Another news source captioned it incorrectly, and we took the information from that. As for the "act just like us" gag, we assume people know that all politicians are scum. We just thought it was interesting that these guys smoke pot occasionally—"just like us!" Sorry pal—no T-shirt for missing the punchline.



● **David Toma** PIZ

ALTERED STATE

First of all, I want to tell you I really enjoy tripping out on your mag. I want to know why I have altered states when I take a certain amount of LSD (I took a hit and a half) and then drink orange juice. When I went through my first one, it scared the shit out of me.

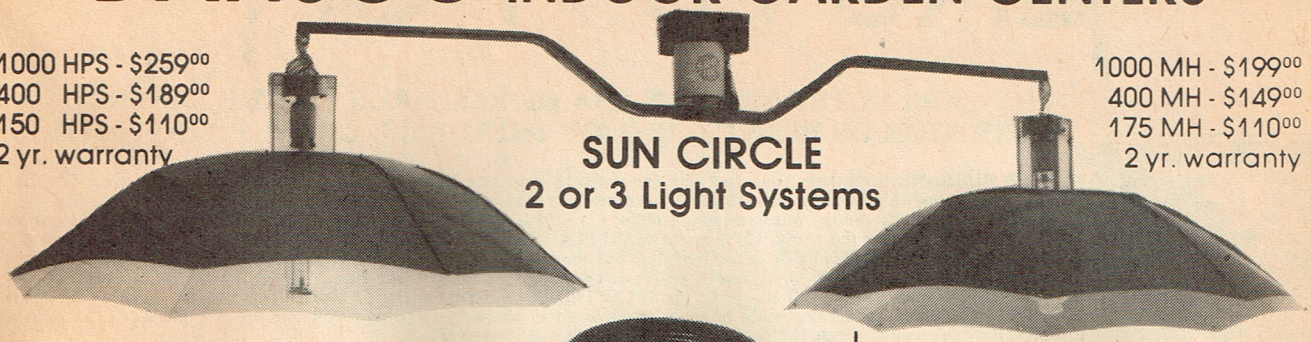
—*Altered Dave*
Moorpack, California

Back in the '60s, some heads used to drink orange juice to settle down a heavy trip, but this is the first we've heard of "altered states." Maybe our other readers can help us.

continued on page 28

DANSCO INDOOR GARDEN CENTERS

1000 HPS - $259.00
400 HPS - $189.00
150 HPS - $110.00
2 yr. warranty



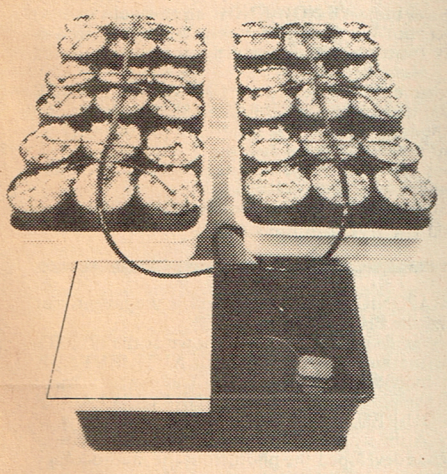
SUN CIRCLE
2 or 3 Light Systems

1000 MH - $199.00
400 MH - $149.00
175 MH - $110.00
2 yr. warranty

HYDRO FLO I $249.00
Expansion Module $16.00

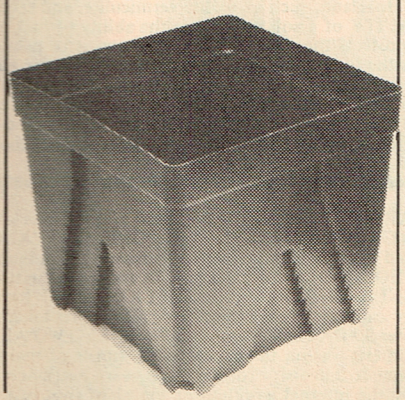
NEW Hydro Flo I includes 6 trays with 36 one gallon Pyramid pots, reservoir, timer, pump, rockwool, 12 week nutrient supply and pH Control Kit. Basic system covers 4' X 5' area for 10 - 12 week cycle. Double the size of this system for only $96.00 more!

Larger pumps and reservoirs allow us to custom fit these systems to your needs.





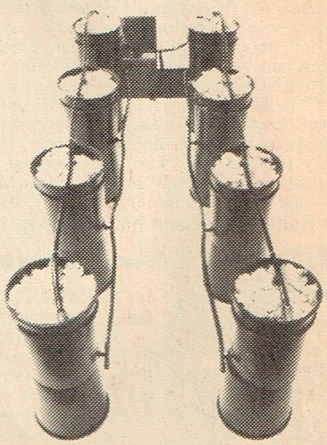
PYRAMID POTS
1 gallon (round) and 3 gallon (square) Pyramid pots provide exclusive "root pruning" feature which stimulates new root production for up to 250% more roots than other pots of equal size. Available in either white or black.



HYDRO CELL II $209.00
Expansion Module $6.00

Hydro Cell II includes 8 two gallon grow cells with reservoir, timer, pump, rockwool, 12 week nutrient supply and pH Control Kit. Recirculating system is easily expandable to 30 cells without increasing pump size or reservoir capacity!

Larger pumps and reservoirs allow us to custom fit these systems to your needs.



4' and 7' parabolic reflectors • light rails and tracks • horizontal mount light fixtures • quaranteed air filtration systems • ion generators • deoderizers • CO^2 generators • CO^2 injection systems • circulating fans • exhaust fans • inflatable exhaust tubing • dehumidifiers • timers (24 hr, multiple program, repeat cycle) • water timers • vinyl tubing • drip irrigation • hydro nutrients • pumps • nutrient heaters • pH pens • dissolved salts pens • temperature & humidity meters and controllers • scales • propagation mats • heating cables • rockwool cubes • rootcubes • new "root pruning" pots • clone domes • Pro-mix • Sunshine mix • loose rockwool • Gro-rox • bat guano • kelp • plant hormones • cloning aids • pH balancers • bloom boosters • 99% reflective mylar • white visqueen • greenhouses and accessories

---

DANSCO VALLEY HALIDE
E. 14109 Sprague #5
Spokane WA 99216
509-924-8333
800-527-7012 Ext. 294

DANSCO INDOOR GARDEN CENTER
844 University Avenue
Berkeley CA 94710
415-549-2918
800-523-1367

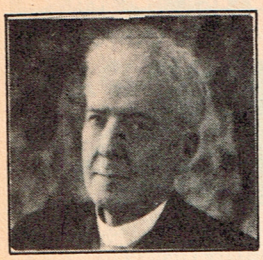
DANSCO HALIDE
315 North 105th
Seattle WA 98133
206-784-9492
800-345-3398

Dealer Inquiries: DANSCO DISTRIBUTORS, 4442 27th W, Seattle WA 98199, **206-282-7282**

VISA, MC, AMEX or will COD with prepaid freight.

PHOTOTRON®

PIONEERS IN THE MODERN ERA OF RESEARCH ON THE MINERAL NUTRITION OF PLANTS...ONE OF THEM WILL CHANGE YOUR LIFE

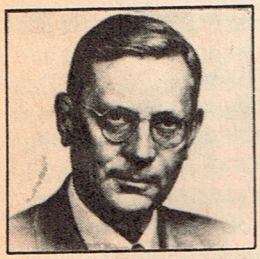


LUTHER BURBANK lived from 1849 to 1926, and not before or since has there been a greater contributor to plant development. Every domesticated fruit or vegetable or flower has been produced by Mr. Burbank directly or by his methodology.

Mr. Burbank's methodology was extremely simple: (1) First he would GATHER the most extensive seed stock of a particular species from all over the world. (2) Then he would PLANT all of the seeds closely together. From the resulting ten thousand plants, he would (3) SELECT one or two that had the most pronounced characteristic of size or shape or scent or color or whatever he was looking for. (4) From those one or two plants, all of the seeds were PLANTED and from the resulting ten thousand plants, only one or two would be (5) SELECTED that further developed more of the desired characteristic. This process of planting and selection would be repeated as often as necessary from a few generations to hundreds of generations until Mr. Burbank would release the final seed stock to the rest of the world.

Mr. Burbank grafted one hundred different types of apple branches onto a single apple tree and each branch bore a completely different fruit the first year for his personal selection. Inventing this grafting technique, he squeezed thousands of years of research into a few. The results of his work, from potatoes to apples to EVERY domesticated fruit, vegetable or flower, are what we grow today.

The Burbank Potatoe Quadrupled World Production in One Year. Luther Burbank never needed a lot of space. In his lifetime he conducted over one hundred thousand series of experiments and changed the world on less than three acres of land.



DENNIS ROBERT HOAGLAND, 1888-1949, was the inventor of the "four salt Hoagland solution" from which all HYDROPONICS are based. Although a brilliant botanist, Dr. Hoagland was interested in only one thing, the BIO-MASS (size and weight) of the TOMATO produced hydroponically. Working under the scientific assumptions of the early 1900s, Dr. Hoagland's world assumed four things:

A. Plants had a life cycle leading to death. **WE NOW KNOW** plants have a very different way of achieving a life and death cycle than does the human being. Humans are more genetically structured toward their life and death cycle than plants. Plants allow environmental factors to control not only their life and death cycle but their sex as well: Such things as (1) "PHOTO-PERIOD" (length of time under light and dark), (2) "THERMO-PERIOD" (length of time under temperature variation), and most importantly (3) "NUTRIENT PERIOD" (length of time under a given nutrient configuration).

B. Maximum SIZE and WEIGHT before death of (a) root, (b) shoot, (c) fruit–known as the "root to shoot to fruit ratio"–was the absolute goal. **WE NOW KNOW** the "root to shoot to fruit ratio" is a fallacy. There is no such thing. While keeping the fruit exactly the same size as normal, both the root (below the soil) and the shoot (above the soil) can be minimized. And by reducing the inter-nodal lengths* (distance between the budding sites from an average of 6 inches to less than 1 inch), the number of the normal sized fruit will increase to thousands per plant. *(*Footnote: See inter-nodal length graph in "The Garden" brochure.)*

C. Plant "lush feeding" of excess nutrients meant nothing. **WE NOW KNOW** plant "lush feeding" kills the plant. The basis of the hydroponic method is that a fresh nutrient supply be pumped in while the used nutrient supply drains out. This allows the plant to absorb excess amounts of calcium. If allowed, the plant will absorb 10 times what it requires of calcium to the exclusion of other more beneficial nutrients like N, P, K, Mg, Na, Cl, etc. Too much calcium and the plant gets GARDENING OF THE ARTERIES and dies after one seasonal growth period.

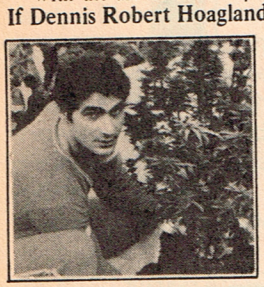
D. An aquaeous (water) based system without a "buffer" (soil having a cation exchange capacity, C.E.C.) was best. **WE NOW KNOW** an aquaeous (water) based nutrient solution surrounding the root system without a "buffer" to protect the roots creates a "water root"–a thick, fleshy root that has layered itself with "fat" to protect itself. Nowhere near the amount of root surface area is produced hydroponically (water based) as when the roots are buffered against excess concentrations by a soil medium.

WE NOW KNOW that the soil mediums used by Dr. Hoagland, such as perlite vermiculite, and sand have no buffering action or "CATION EXCHANGE CAPACITY" (C.E.C.). The CATION EXCHANGE CAPACITY of a soil medium is the ability of that medium to ABSORB AND RELEASE a nutrient solution. The cation exchange capacity of the soil medium protects the root system and allows it to produce thousands more root structures, producing thousands more square inches of root surface area. The greater the root surface area, the more efficient the nutrient uptake for faster frowth.

The early 1900s did not have the advanced technology of 1986. Equipment for testing nutrient solutions and plant tissue such as the gas-liquid chromotographic assay (GLC), Thin-Layer chromotographic assay (TLC) and sophisticated atomic absorption equipment were not available.

With the aid of the computer since 1951, the medical profession by comparison has advanced in the last 30 years more than in the preceding 2,000 years.

If Dennis Robert Hoagland had access to 1986 technology in 1920, he never would have designed the hydroponic system.



JEFFERY JULIAN DEMARCO, 1951-___, is President and founder of PYRAPONIC INDUSTRIES and is the inventor of the methodology known as GROWING PLANTS PYRAPONIMETRICALLY and the PHOTOTRON.

Three things are required to grow plants pyraponimetrically: 1. A laboratory grade growth chamber known as the PHOTOTRON. 2. A specific METHODOLOGY for plant growth and manipulation (instructions). 3. A very specific NUTRIENT SUPPLY COMPUTER DESIGNED IN PARTS PER MILLION (PPM) for each individual PHOTOTRON. The exact nutrient calibrations are individually calibrated based upon two soil samples taken from the phototron: one after FORTY-FIVE DAYS of plant growth and one after 90 DAYS of plant growth–ONLY TWO ARE REQUIRED.

Mr. DeMarco's Masters thesis was on the cannabinoid profile of marijuana. After working under both federal and state license in a laboratory at a major university for over two years, and since 1976 has developed the phototron, the methodology and the chemistry to study the internal workings of the plant (not just the SIZE and WEIGHT, but utmostly important to study the MOLECULAR and PHARMACOLOGIC properties of the plant). The research developed in pursuit of Mr. DeMarco's research PERTAINS TO ANY PLANT.

Pharmacognosy is the study of molecules produced inside plants. This type of study requires very sophisticated equipment like the Gas-Liquid Chromotogram (GLC), Thin-Layer Chromotogram (TLC) and Atomic Absorption.

THC-delta 9, the psychoactive molecule produced by the marijuana plant, is so microscopic that 100,000 molecules fit end to end would sit on the head of a pin. *When you're concerned about growing structures so infinitely tiny, what difference does the size of the plant make?*

In the disciplines of Botany, Horticulture, Plant Physiology, Soil Chemistry and Floraculture, a "root to shoot to fruit" ratio requires a large root and a large shoot to grow large fruit.

Growing plants Pyraponimetrically (by exactly measuring all 21 environmental elements), requires the plant to produce minimal root, minimal shoot (inter-nodal lengths) and maximize the number of budding sites and size of the bud, flower or fruit.

To develop the (A) PHOTOTRON, (B) the CHEMISTRY and (C) the plant manipulation methodology known as GROWING PLANTS PYRAPONIMETRICALLY, the marijuana plant was used because of its unique properties.

The PHOTOTRON was designed to: (1) GROW 6 PLANTS THREE AND ONE-HALF FEET TALL IN 45 DAYS; (2) Duplicate exactly the quality of the plant material the seed came from; (3) RE-FLOWER AND RE-BUD PLANT MATERIAL EVERY 45 DAYS UP TO 9 TIMES PER YEAR; (4) NEVER KILLING THE PLANTS, YEAR AFTER YEAR; (5) BE REMOVED FROM EVERY DAY. (The system is designed for plant removal, not containment); and (6) To produce 6-8 ounces of plant material every 45 days.

Growing Plants Pyraponimetrically will revolutionize indoor plant production as we know it today. At PYRAPONIC LABORATORIES, over 25 PHOTOTRONS are used for new experiments. To date, PYRAPONIC LABORATORIES have successfully catalogued 17 varieties of flowering plants, 14 varieties of fruits and vegetables, 8 varieties of tobacco and will force flower roses 365 days per year.

****

A year, or two years from now, PYRAPONIC INDUSTRIES will mass market the PHOTOTRON through the major retailers, on television and radio. I will look forward to working with you. Thank you very much.

Jeffery Julian DeMarco

Jeffery Julian DeMarco
President and Founder Pyraponic Industries

1-312-544- B-U-D-S

OVER 15,000 PHOTOTRONS SOLD WORLDWIDE – INTRODUCING THE

PHOTOTRON 2

HAWAII VS THE PHOTOTRON

Hello, my name is Jeffery Demarco, President and Founder of PYRAPONIC INDUSTRIES.

My master's thesis is on the cannabinoid profile of marijuana. I tell you this for historical footnote only.

In pursuit of my own master's thesis, I generated the most extensive popular literature library in the world. Then, I generated the most extensive scientific bibliography in the world. I then went into a laboratory under Federal license at a major university in which I designed a laboratory grade growth chamber called the PHOTOTRON.

If you read all of the popular literature: I did. All of the scientific literature: I did. And look at every apparatus that is in High Times, you will find one common denominator. Every system, UP TILL NOW, has attempted to re-create Hawaii. I suggest that when you finally achieve the re-creation of Hawaii, you can do NO BETTER than Hawaii's results. AND WHAT ARE HAWAII'S RESULTS?

In fact, you will grow the plant 6 to 9 months, 6 to 12 feet tall. In fact, you will average a 6-inch internodal length (distance between budding sites). In fact, have a 10% budding ratio at the tops of the plant. In fact, throw away 90% of the plant material (leaves/shake). And in fact, YOU MUST START ALL OVER AGAIN.

Look. The only thing I'm waiting nine months for is a baby, number one. Number two, I do not want a tree in my house. And number three, I am not going to pay the ELECTRIC BILL TO PRODUCE THE SUN somewhere in my closet. Do not let its pretty looks fool you. Do not let its size (3½ feet tall x 18 inches wide) fool you. Do not let its weight at 17 lbs. fool you.

The PHOTOTRON will draw $4.00 per month in electricity (average). My system is totally different.

In fact, you will grow 6 plants three and one half feet tall in 45 days, guaranteed. You will maintain a one-inch internodal length, guaranteed. That each plant will produce 1,000 budding sites, FROM TOP TO BOTTOM, guaranteed. And there will be 6 plants per individual PHOTOTRON, guaranteed.

And this is the only system in the world where you can re-flower and re-bud the exact same plants every 45 days, up to nine times per year without killing them off. EVER. Then, you may re-flower and re-bud the exact same plants every 45 days up to nine times per year while you remove from the system every single solitary day. Every day (average 6-8 oz. every 45 days). You remove from the PHOTOTRON every single solitary day, beginning on day 20 from seed germination.

I, personally, guarantee and service back the PHOTOTRON, so do not let its technical nature throw you. You will require THREE PAGES OF INSTRUCTIONS ONLY. Because the system is TOTALLY COMPLETE. You will do three things: 1. Select your seed. 2. Plug the system in. 3. Water it.

Then, if you have any questions at all, you may call me direct. Ask your question. Get your answer. And carry on about your business. You cannot fail with my PHOTOTRON. I do not allow any of my PHOTOTRONS to fall below SHOW-CASE. I have personally guaranteed every PHOTOTRON that has ever been sold. And I have never had one returned. I am not starting now.

"If you do not learn more about plant production than you have ever learned before, I will pay you for the call."

Jeffery Julian De Marco



THE PHOTOTRON	NONE	24	YES	YES	YES	YES	YES	YES	YES	YES
Halide Systems	50%	1	NO	NO	NO	NO	NO	NO	NO	NO
LIGHT	LEAF SELF SHADING									
	LINEAR FEET OF LIGHT									
	SPECTRUM ADJUSTABILITY									
	COMPUTER DESIGNED FOR EACH SYSTEM									
NUTRIENTS	GUARANTEE FEMALE SEX									
	NEVER KILLS THE PLANTS									
	ONE-INCH INTERNODAL LENGTHS = 1,000 BUDDING SITES PER PLANT									
	RE-FLOWER AND RE-BUD SAME PLANTS/EVERY 45 DAYS UP TO 9 TIMES PER YEAR									
	TOTALLY SELF-SUFFICIENT TO LEAF SATURATION									
CO_2										
SERVICE	SERVICE HOT LINE FOR QUESTIONS									

If you do not learn more about plant production than you have ever learned before, we will pay you for the call. CAN YOU AFFORD NOT TO CALL US. Or, send a $3.00 money order for our brochure, "THE GARDEN–GROWING PLANTS PYRAPONIMENTRICALLY" to:

PYRAPONIC INDUSTRIES, INC², P.O. BOX 1071, MELROSE PARK, IL 60160

* photograph presented from university conducted research for Masters Thesis entitled "Factors Controlling Resin-Production and Plant Growth," pertaining to any plant.

1-312-544- B-U-D-S

©1986-87 PYRAPONIC INDUSTRIES INC.

PYRAPONIC LABORATORIES: GROWING PLANTS PYRAPONIMETRICALLY

PYRAPONIC LABORATORIES MAINTAINS: (1) The most extensive scientific literature library in the world. (2) The most extensive popular literature in the world. (3) The most extensive library of Data Packages and Soil Analysis selected from over 3,000 PHOTOTRONS sold worldwide. (4) On premises, over 25 PHOTOTRONS with the capacity of three shelves each so that up to 75 experiments may be ongoing at any one time. Jeffery Julian DeMarco, President and Founder of PYRAPONIC INDUSTRIES and PYRAPONIC LABORATORIES, maintains his PHOTOTRONS for the purpose of killing plants. It is only after experimenting with the parameters of death at PYRAPONIC LABORATORIES that the PHOTOTRON can perform so miraculously around the world. Said to be the number 1 herbicidal maniac, Mr. DeMarco has full-time laboratory technicians on staff and has the most extensive technical consulting network from Universities around the world. PYRAPONIC LABORATORIES maintains the most sophisticated on-premises computerization for data analysis and retrieval in the world. Thousands of experiments have been conducted and thousands more will be ongoing to expand ever further the performance of each PHOTOTRON. As PYRAPONIC LABORATORIES introduces new methods or nutrient formulations, each PHOTOTRON owner is contacted so that every PHOTOTRON is upgraded long after it has been purchased. THE PHOTOTRON IMPROVES MORE AND MORE THE LONGER YOU OWN IT!

GROWTH PATTERN OF TOMATOES GROWN PYRAPONIMETRICALLY



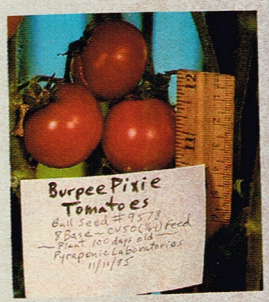
Young tomato plants in vegetative stage.



Young tomato plants beginning to flower and fruit.

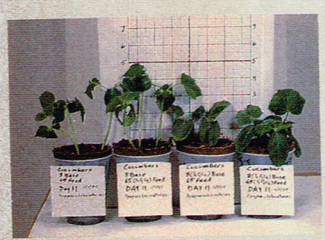


Fruiting less than an inch apart.



"Normal" fruit development with a reduced root-to-shoot ratio.

GROWTH PATTERN OF CUCUMBERS GROWN PYRAPONIMETRICALLY



Typical testing pattern by Pyraponic Laboratories depicting the morphological differences of cucumbers grown under identical conditions except one nutrient level.



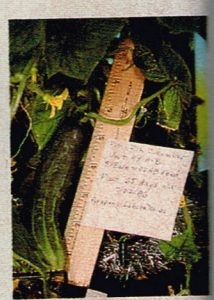
Plants nearing top of Phototron in less than 30 days.



Plants filling the Phototron in less than 45 days.

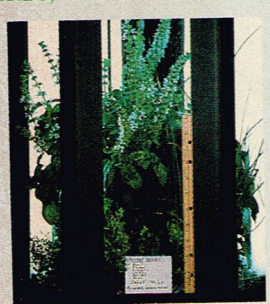


Tremendous flowering and fruiting less than an inch apart.



"Normal" fruit development with a reduced root-to-shoot ratio.

HERBS, VEGETABLES AND FLOWERS GROWN PYRAPONIMETRICALLY



Herbal garden at 65 days of Parsley, Sage, Basil, Oregano, Thyme and Chive.



The hottest jalapa pepper grown anywhere in the world.



Laboratory experiment producing complete root systems on the stem structures of flowering marigolds.



"Normal" marigold flower size produced with reduced root-to-shoot ratio.

GROWTH PATTERNS OF ZINIAS AND SNAPDRAGONS GROWN PYRAPONIMETRICALLY



Day 44: Phototron jammed with flowering zinias.



Day 52: "Normal" zinia flower size produced with reduced root-to-shoot ratio.



Day 46: Phototron jammed with flowering snapdragons.



Day 58: "Normal" snapdragon flower size produced with reduced root-to-shoot ratio.

HIGHWITNESS NEWS

OCTOBER '87 ● NO. 146

BUST CITY

NEW YORK, N.Y.—Recent drug sweeps here have netted an interesting assortment of people—respected college professor Lowell Matson, HIGH TIMES contributing editor Carlo McCormick, and Dana Beal (best known to HIGH TIMES' readers as the former head of the Yippies). The nature of these arrests, as well as the character of the people who have been arrested, point to an ugly trend in the city.

Lowell Matson, the 65-year-old head of the speech and drama department at Wagner College in Staten Island, was arrested June 9th, 1987, for growing marijuana indoors. Acting on an anonymous phone tip, four narcotics officers searched his home and found 62 plants under a 14-foot long automatic lighting system. After police arrested him, Matson quoted several lines from Shakespeare, and muttered the immortal line "much ado about nothing."

A few days later, he handed in his resignation. Acting college president Carlyle Haaland called the arrest a "deep personal tragedy," and praised the accomplishments of Matson, saying that his theater productions not only brought the college national praise and recognition, but also helped the school increase enrollment.

Carlo McCormick was caught in one of the "Operation Pressure Point" raids on the Lower East Side of Manhattan. He was pulled out of a taxi by four plainclothes detectives without an arrest warrant or probable cause. When police searched McCormick and found a joint, he was taken to several precincts and held for 48 hours. Of course, no one read him his rights, and by the time his misdemeanor case was brought up to arraignment, he was released. The purpose of these Operation Pressure Point busts is supposed to be to clear the addicts and hardcore, hard drug dealers out of the neighborhood, but the result seems to be that mainly nonthreatening drug users get the hardcore treatment, while the heroin and coke dealers keep multiplying—along with the muggings.

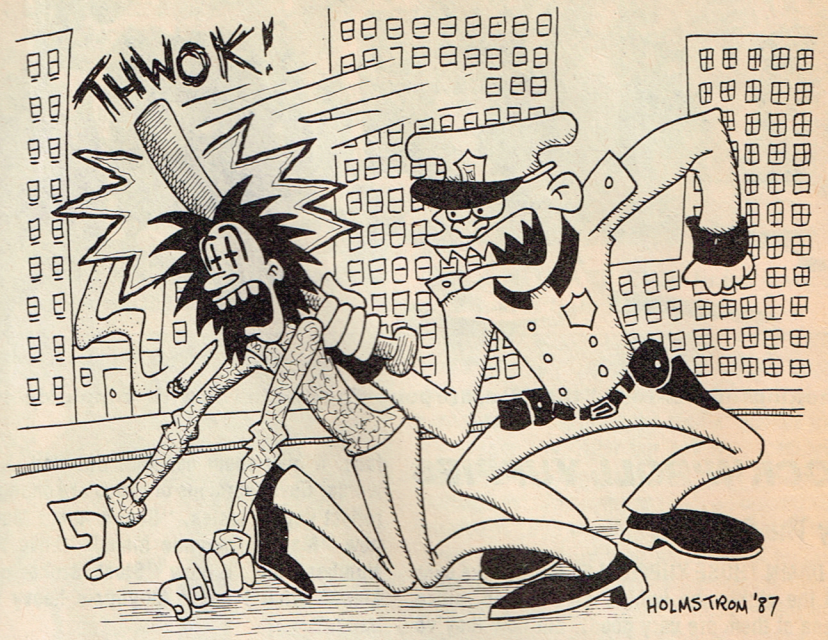


ILLUSTRATION BY JOHN HOLMSTROM

Dana Beal's arrest is a lot more serious. Dana, who has appeared in HIGH TIMES over the years both as a writer and as head of the Yippies, was arrested and charged with possession of eight pounds of pot with intent to sell, a Class C felony. After the arrest, which took place in uptown Manhattan, police went downtown and raided the offices of GRASSROOTS CAMPAIGNS at 9 Bleecker, a media cooperative of several radical political groups. Grassroots Campaigns is a new, multi-issue organization trying to do marijuana politics in a new way. It seeks to legitimize the pot issue within other progressive movements. The offices were virtually torn apart. A photographer taking pictures of the police action had his film ruined when a DEA agent removed it from his camera—even though the arrest was conducted by the state police. Dana Beal said, "Considering what was taken, which was our most active file of people who wrote in to the impeachment movement, it's hard to believe it was anything other than a political raid."

Dana Beal, a radical activist, has been well known to the federal government for many years. Anyone who has followed his political career would understand why the feds would want to nail him. Recently, he led a demonstration in Washington against Ed Meese and his cohorts at the DEA.

Grassroots Campaigns is still in business, and the ACLU is working to get the seized files back. If you wish to support Grassroots and Dana Beal, send some money to: Grassroots, P.O. Box 392, Canal Street Station, New York, NY 10013. You can send cash, a check or money order made out to Alice Torbush. ●

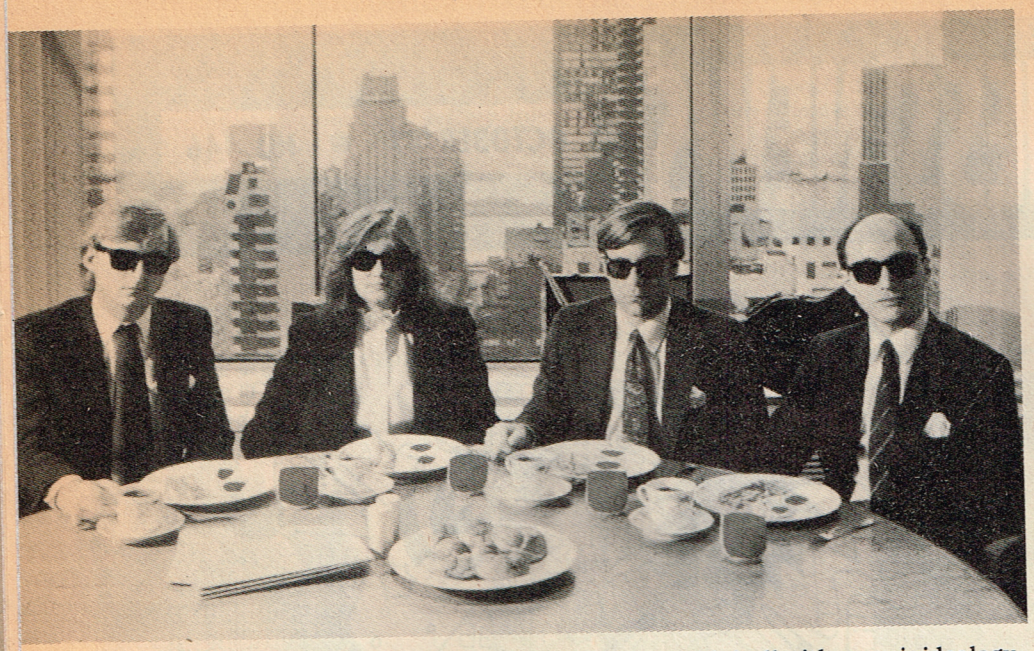
AMAZING COMPUTER SHOW

The Amiga, a powerful computer capable of producing amazing psychedelic graphics, has to be seen to be believed. It's capable of animating three-dimensional images, yet costs less than an IBM PC. The first-ever AmiExpo, "The Amiga Event," will give Amiga owners, or anyone curious to get a closer look at this amazing computer, the chance to check out everything it can do. The first AmiExpo will be held in New York City from October 10-12, 1987, and additional shows are planned for Chicago and San Francisco. For information, call (800) 32-AMIGA. ●



THE GREAT MIDWEST HARVEST FESTIVAL

The Great Midwest Harvest Festival will be held on Sunday, September 27, 1987, at the State Street Mall in Madison, Wisconsin. The highlight of the festival will be a parade to the state capitol grounds at 1:30, to protest the current marijuana laws. The festival kicks off with a seminar on advanced growing techniques, by Ed Rosenthal, on the 26th at the state university. A few years ago, the Great Midwest Harvest Festival was the target of an airlift of joints, but no such spectacular stunt has been promised for this year. ●



The kings of "biz-rock," the V.P.s, are poisoning rock'n'roll with yuppie ideology.

ROCK'N'ROLL YUPPIES

by The General

DAMN THOSE YUPPIES! First they take over all the nightclubs (which isn't so bad, since none of them are very good), but now they've gone too far. Far too far. Recently a band premiered at the Saint, formerly the Fillmore East, that was made up entirely of businessmen. That's right, an all-yuppie band called the V.P.s. Each band member either has an M.B.A. in business or finance. On the surface, it may seem horrible, but wait, it gets worse. Cover versions of songs are changed to reflect yuppie tastes. "Secret Agent Man" is now "Madison Avenue Man." "Love Potion Number Nine" is now "Stock Broker on the Line." What's next? All-yuppie heavy metal bands?

If these yups want to be the new Beatles, we should be the new Three Stooges. The next time you see a yuppie rock star, poke their eye out, step on their feet, and conk them over the head with a mallet. The only good yuppie is one with a broken skull. ●

COMMIES SHOCKED BY AMERICAN DRUG USE

by John Holmstrom

J. W. Canty, chairman of the Soviet-U.S. Joint Conference on Alcoholism and Drug Addiction, showed three Soviet experts on alcoholism the exciting sights and sounds of New York City. But this was no ordinary tourist gig—publicity surrounding the Soviets' "no-holds-barred" fact-finding mission focused on the "terrible" problems of drugs and alcohol in America. During a visit to Shea Stadium, Dr. Katerina Menshikova was disgusted by the fans' behavior during the game. "We were shocked to find all the drinking and we heard a few words that aren't in an English-Russian dictionary," she said. "In Russia, drinking is forbidden at sport games."

In another incident, the Commies were taken to Bryant Park. They were totally outraged to see people selling drugs out in the open. "As soon as we walked in the park," Menshikova told the New York Daily News, "a man jumped up and said, 'Do you want to smoke?' and offered us some packages of marijuana. I was very surprised and didn't answer. He looked and saw there were five of us and said, 'Don't worry, I have enough for all of you.'"

Another of the Russian doctors was horrified by the sight of bums getting loaded on cheap wine. "The things we are seeing are terrible," said Dr. Konstantin Voronin. "This is very bad. I do not feel safe here."

Their tour guide, J. W. Canty, apparently agreed with the Communists. "There is nothing like this in Russia. Public drinking is prohibited there," he said. "You never see people drinking or using drugs in Gorky Park in Moscow."

The Russian doctors proudly talked about the Soviet crackdown on alcohol use. Since 1985, the drinking age in Russia was raised from 18 to 21, the government slashed production of vodka and other booze, and heavy penalties have been imposed on public drinking. "Alcoholism is a major problem in my country; but drugs are not a problem there," said Dr. Andrey Vroubievsky. "We have no problem with cocaine—not yet."

Actually the Russians have big problems with alcohol (and are beginning to experience problems with drugs) in their society. But since there's no free speech in the Soviet Union, they're able to hide these "counter-revolutionary" difficulties. In the United States, drug and alcohol problems become the target of a sensationalism-oriented news media. Bums, derelicts, and street people are just the price we have to pay to live in a free, open society. Let's hope it stays that way. ●

CLUB MEDICATION

CARRIE FISHER, of STARS WARS fame, has written a soon-to-be-released novel—POST-CARDS FROM THE EDGE—that describes her experiences in a drug rehabilitation facility. She was treated for addiction to LSD and the painkiller Percodan.

Fisher, who entered the treatment center after her 11-month marriage to Paul Simon fell apart, is the daughter of Debbie Reynolds and Eddie Fisher—who also suffered from the disease of addiction. Genetic predisposition is now thought to make people with a family history of drug abuse and/or alcoholism more susceptible to becoming addicts and alcoholics than those without the disease in their family backgrounds.

According to one report, Fisher's involvement with drugs apparently began when she buddied around with SATURDAY NIGHT LIVE's early star, the late John Belushi. In his book, WIRED, Bob Woodward says that Fisher and Belushi indulged in cocaine and opium. Belushi died of an overdose in 1982.

Fisher should be applauded for her willingness to share her experience, for in so doing, she is helping other addicts understand the nature of their problem. ●

WHATEVER HAPPENED TO...?

Remember that scumbag, Spiro T. Agnew? For those of you who don't, he was Nixon's self-righteous vice president before being forced to resign from office in 1973 after pleading no contest to charges that he accepted bribes while he was Maryland's governor, and later when he was vice president. He recently filed a federal lawsuit that contains a wealth of information on what he's been up to since then.

Agnew filed a civil lawsuit against an Argentine firm, Alicanto S.A., charging that the firm burnt him out of more than $2 million in commissions. He said in the deposition that while on business trips to South America in 1980, he met with leaders of the South American military junta to help gain military contracts for his international clients. He further contends that he acted as middleman in consummating an arms deal, supplying Argentina with military equipment from an American firm. The lawsuit also charges that officials working for the American military contractor and its Argentine business partners paid $3.6 million in bribes that were passed on to the former head of Argentina's air force to secure a $57 million military contract.

The catch to the whole deal is that Agnew's lawsuit indicates that his dealings with Argentina were in direct violation to a law against providing any military equipment, advice, or assistance to the Argy government because of its human rights violations. The restriction on military aid was instituted in 1978, and was in effect until December 1983.

Agnew's lawyer, Robert Knapp, Jr., said his client was unaware of the U.S. ban on military sales, and said, "I thought there was a ban only on Communist nations." ●

SON OF SATAN?

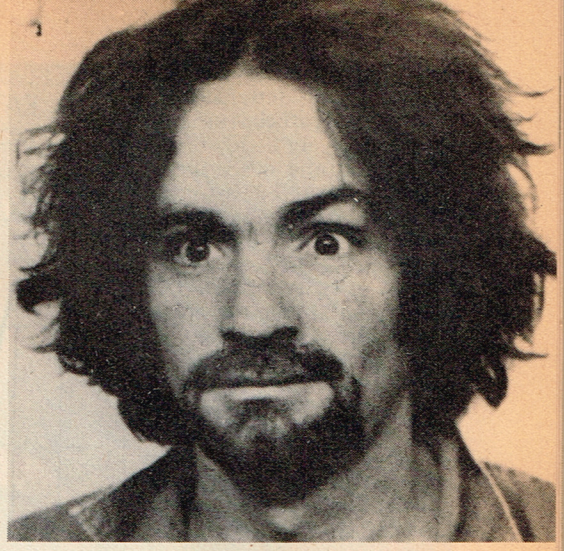
DAVID BERKOWITZ, convicted for the "Son of Sam" shootings of 13 people (six were fatally wounded) in New York City ten years ago, may not have acted alone. A new book, THE ULTIMATE EVIL by Maury Terry, claims that Berkowitz was a member of a Satanic cult whose members participated in the design and execution of the murders. Terry isn't the only one who believes Berkowitz was not the sole perpetrator of the killings. Queens District Attorney John J. Santucci has reopened the case, and Brooklyn District Attorney Elizabeth Holtzman is being asked to reopen the case as well.

Harry Lipsig, a Manhattan attorney involved in bringing a civil suit against Berkowitz in connection with the shootings, interviewed Berkowitz in prison in January 1982. "He sat there in terrified tension and testified under oath that he was only one of a group of 22—a group intent on murder and crimes of violence," said Lipsig.

A handwriting expert has declared that the Son of Sam letters, which were printed in the media and fueled mass fear in New York during the 1976-1977 murder spree, were not written by Berkowitz.

Neysa Moskowitz, mother of victim Stacy Moskowitz, has reported being attacked several times by men who "looked very collegiate" after she appeared on television with Terry in support of his book. She claims that her attackers cut Xs on her body and forced her to drink her own blood. When she spat it in their faces, they slugged her.

Because of evidence never released from both the Queens and the Brooklyn District Attorneys' offices, the conclusion of the handwriting analysis, and eight years of research done by Terry, there seems to be plenty of grounds for more thorough investigation. ●



THE ULTIMATE EVIL links Manson to a Son of Sam satanic cult.

UFO MANIA

by Colin Miner

LAST NOVEMBER, a Japanese Airline pilot spotted a large aircraft twice the size of an aircraft carrier following his plane. The U.S. Government has covered up the story with the usual tissue of lies.

Kenjyu Terauchi, the pilot, spotted the UFO at 35,000 feet above the Beaufort Sea off the Alaskan coast. The UFO followed Terauchi's plane to 31,000 feet, then disappeared a few minutes later. Flight controllers who were on duty that night for both the FAA and the United States Air Force reported seeing unidentified blips on their radar screens at the same time, and in the same place, that Terauchi saw the UFO. U.S. Government investigators from the Air Force and the FAA reviewed the tapes of that night, but reportedly found nothing. They claim that whatever the flight controllers, Terauchi, and his flight crew saw that night was nothing more than "clutter." As for Terauchi's report that he not only saw the unidentified craft on radar, but with his own two eyes, the U.S. investigators offered no clear explanation.

The government's explanation of the events might have been quickly accepted and forgotten, except that a book about to be published in England, "Above Top Secret: The Worldwide UFO Coverup," lends credibility to Terauchi's assertion that he did not see "clutter," but an extraterrestrial spacecraft. Written by one of Britain's leading experts on unidentified flying objects, Timothy Good, the book focuses on a secret U.S. committee, Majestic-12, set up by President Harry Truman to investigate reports of UFOs. According to the book, Majestic-12 investigated reports of crashes of UFOs, and, if they turned out to be true, covered them up. The book's most startling charge is that, more often than not, the reports of UFOs did turn out to be true.

The book spends a lot of time discussing what has become known as the Roswell Incident. In 1947, a farmer in Roswell, New Mexico called the government, saying he had seen a UFO that had crashed in the desert. According to the

continued on page 23



TOM BESSOIR

The General receives his lava lamp.

HIGHWITNESS NEWS UPDATE

Here's the latest scoop on stories that have appeared in the past few issues.

● HOWARD STERN VS. THE FCC—Howard's TV deal was killed by Fox Broadcasting, apparently over the furor created by the FCC. Stern is a victim of the idiotic, moralistic hysteria that's gripping the country. However, people are now becoming aware that much of the pressure to "clean up the media" comes from TV evangelists. After our call for a campaign against TV evangelists, we heard from Fundamentalists Anonymous (FA), an organization formed in 1985 to aid people whose lives have been destroyed by their addiction to religious fundamentalism and their adherence to the fire and brimstone morality and politics employed by fundamentalist leaders, such as TV evangelists. If you need information on how to stop this terrible plague which has ruined so many lives, write to: Fundamentalists Anonymous, P.O. Box 20324, Greeley Square Station, New York, NY 10001.

● MICHAEL SERGIO, the daredevil who was jailed for parachuting into Shea Stadium during the World Series, was released after a few weeks as a result of pressure from the media and the public.

● THE GENERAL, a HIGH TIMES contributing editor, won the "air-surfing" contest at the latest Mind's Eye event. Contestants had to pretend-surf to beach music to win. We're not sure if air-surfing will replace air-guitar, but if it does, remember—you read it here first! ●

HOPELESS HOPE

Leave it to an aging, boring "comedian" like Bob Hope to jump on America's anti-drug hysteria and use it to blatantly boost his career. Hope (or rather his "people," since Bob is a doddering old coot who can barely walk without someone holding him up) has organized the Hope for a Drug Free America Foundation. Its stated goal is to "bring the finest minds and skills of the greatest nation on earth to bear on the oldest and most terrible curse of mankind—drugs."

Naturally, "the vehicle" for the Foundation is an annual television special—"A mini-telethon on the eve of professional football's Super Bowl that will reach over a hundred million homes, with the greatest stars from sports and entertainment as the attraction—hard information on drug abuse as the message."

The Foundation's board of directors are big names like Walter Cronkite, Lee Iacocca, Dr. Norman Vincent Peale, Charlton Heston, Tom Selleck, James Stewart, Grant Tinker, Pete Rozelle, Peter Ueberroth, and Dr. C. Everett Koop. The Foundation's stated goals are to immediately raise $100 million in donations, and to wipe out the "drug epidemic in this country by the end of the century." ●



UPI

IT'S NO USE!!!—Despite their best efforts, federal law-enforcement officials are seizing "relatively little" of the coke, pot, and other illegal drugs smuggled into the U.S., according to a report prepared by the General Accounting Office.

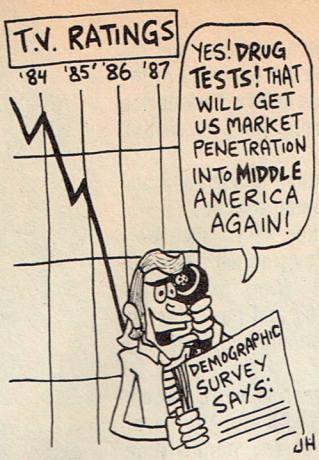
A.M.A HAS ITS SAY—The American Medical Association released a report on June 25 that says employees should be tested for drugs only when there is reasonable suspicion of impaired job performance, or when the prospective employee's job would affect the health and safety of others.

AS CREEPY AS ABC—Capital Cities/ABC has a weird remedy for their sliding ratings—they are instituting drug testing for pot, coke, opiates, Valium, Librium, PCP, amphetamines, and barbituates for all incoming full-time staff. "If an applicant fails the test," said an ABC spokesperson, "he or she will be considered unsuitable for employment by any unit of the company for a period of six months."

IN A RELATED DEVELOPMENT—According to the Writer's Guild of America, women hold less than 20 percent of all TV- and film-writing jobs, minorities hold under 3 percent, and writers under 40 have virtually no chance at all. "The situation is absolutely unacceptable and soul breaking," said WGA executive director Brian Walton.

COKE IS NOT IT—According to a report in the WALL STREET JOURNAL, cocaine use is declining. Other finding of the JOURNAL report: Although fewer people are using coke, people who use it are doing more of it, and coke is becoming a lower-class drug. "Freebasing and crack have changed the nature of cocaine," William Moffitt of NORML told the JOURNAL.

GIMME A SHOT—A 23-year-old, broken-hearted guy, drunk and desperate over a failed romance, offered some guy at the bar 50 bucks to shoot him. He obliged. The unidentified man was treated and released from Bronson Methodist Hospital in Kalamazoo, Michigan, for a gunshot wound in the leg. The gunman was paid by the victim, but police doubt they'll ever find him.



DEADHEAD???—New York's famous subway vigilante, Bernard Goetz, is a Grateful Dead fanatic! The first thing he wanted to do after his trial was pick up a copy of their newest LP, "In the Dark."

GRANDMAS IN BOOZE BUST—Two sisters in their 60s, Mattie Harper and Mary Alice Garth, were busted for illegal possession of five gallons of bootleg whiskey and 12 cases of beer. According to Sheriff Mike Blakely, Harper didn't even charge some customers because, as she said, "I get so lonely; I sell it so people will come to see me."

AIDS JUST A SCARE?—Although health experts still caution heterosexuals to follow safe sex practices, the chance for middle-class heteros catching the virus are very limited. According to Polly Thomas, New York City Health Department's director of AIDS surveillance, "Many males initially report that they contacted the disease as a result of heterosexual contacts, but when you investigate those more closely, they turn out to be cases involving homosexual contact or IV drug use."

GORE GALORE—Albert Gore, the Tennessee Democrat whose wife makes Nancy Reagan look like a wild party animal in comparison, has announced his candidacy. Remember Tipper Gore, crusader against obscene rock lyrics and dirty movies? Well, if her husband wins the election, look forward to at least four more years of misery from those moralistic shitheads.

HEY JERRY! WHAT'S THE STORY—Jerry Garcia told SPIN magazine, "Drugs are one of those things everybody has to decide for himself. I've learned lots from drugs, and I think life would be terribly dull without them."

QUICK FLASHES



QUIK TEST, QUICK FIX—The Food and Drug Administration recently approved a new drug test, the KDI Quik Test Marijuana Screen. Marketed by the Keystone Medical Corporation, it differs from conventional drug tests in that the procedure works like a home pregnancy test, using a screen that changes color within three minutes if a urine sample contains traces of the THC metabolite. Test kits will be available to doctors, hospitals, police, and prisons by this fall.

FAT-TESTING STINKS—A study two years ago found that half of the 5,000 labs in the country mismeasured a standard cholesterol sample by an average of 5 percent, with occasional results 100 percent off the mark!!! According to experts, the cholesterol market, worth a cool one billion clamshells a year, needs to be regulated.

MIDAS MARCOS—Former Philippine prez, Ferdy Marcos, claims to have stashed away 1000 tons of gold worth over $14 billion. That would be around 74,000 bricks, enough to build five gold houses (the average-size house uses about 15,000 bricks). Fun fact: That's nearly 35 times as many bars of gold as Imelda had shoes.

KILL A DRUGGIE FOR JESUS—According to Los Angeles police, a mother reportedly stabbed her daughter to death during an argument over the girl's crack use. "They had been having trouble for a long time—the girl had run away, she didn't go to school," a detective said. "The mother just went overboard." Maureen Belle, 32, was arrested on suspicion of murder in the killing of Natasha Blacklock, 16.

WHAT, ME WORRY?—Stress is a figment of the imagination, according to Prof. Ian Webster of the University of New South Wales in Sydney, Australia. He claims people use stress as an excuse for failures or problems at home or work. "Stress," Webster says, "causes people to worry about symptoms they would not notice when happy or buoyant."

WATCH OUT!—That's right, watch out! The PMRC (Parents' Music Resource Center) is still at it. They're attacking rock music on the grounds that certain songs don't promote "safe sex," and they released "Rising to the Challenge," a 27-minute tape which "details some of the more wretched excesses" in rock music, according to a rave review in TV Guide. Concerned parents can order the tape by mail from Teen Vision, Inc., Box 4505, Pittsburgh, PA 15205, for $41.50. Rock groups looking for publicity can send their most shocking videos to that address. The more shocking the video, the more likely the PMRC will want to promote it. ●



STEVE SANDS

GO-GO GIRL OF THE MONTH

WHAT DO biker chick Sweet Pea, TV evangelist Polly Anne, and Raven, the raunchy singer of a heavy metal rock group, have in common? They're just three of the many faces of ANN MAGNUSON, the hot performance artist praised by NEW YORK MAGAZINE for her "gleeful talent for parody." Magnuson gained national attention by playing 30 characters in 15 minutes in the video short MADE FOR TV, which aired on PBS in 1986.

She first presented her creations in New York City's East Village, where she was instrumental in creating the East Village art scene, which degenerated into today's psychedelic garage scene. Around the HIGH TIMES office, Magnuson is remembered for her expose of TV evangelists, which appeared in our December '85 issue.

Last summer, she showcased her gallery of pop culture characters in an edition of CINEMAX's comedy series—"Ann Magnuson's Vandemonium." She had a starring role in Susan Seidelman's MAKING MR. RIGHT, appeared in East Village filmmaker Sara Driver's latest release, SLEEPWALK, and will be seen in the soon-to-be-released JIMMY REARDON.

---

continued from page 21

book, the government found more than a spacecraft—four dead bodies of alien crew members were among the wreckage.

The book makes frequent references to a newly discovered top secret document that recounts a classified briefing to President Eisenhower from CIA director Hillenkoetter on the incident. The authenticity of the document, however, has not been proven. The document states that the UFO uproar of the '40s and '50s started in the following fashion:

"On 24 June, 1947, a civilian pilot flying over the Cascade Mountains in the state of Washington observed nine flying disc-shaped aircraft traveling in formation at a high rate of speed." Although this was not the first known sighting of such objects, it was the first to gain widespread attention in the public media.

Very little in the way of actual proof came about until the "Roswell Incident." As the document states: "In spite of these efforts, little of substance was learned about the objects until a local rancher reported that one had crashed in a remote region of New Mexico located approximately seventy-five miles northwest of Roswell Army Air Base" (now Walker Field).

The most startling part of the document came a couple of paragraphs later: "On 07 July, 1947, a secret operation was begun to assure recovery of the wreckage of this object for scientific study. During the course of this operation, aerial reconnaissance discovered that four small, humanlike beings had apparently ejected from the craft at some point before it exploded. These had fallen to earth about two miles east of the wreck site. All four were dead and badly decomposed, due to action by predators and exposure to the elements during the approximately one-week time period which had elapsed before their discovery."

As if the emergence of this document wasn't enough, it now appears that UFO believers will be getting some help from the late Jackie Gleason. A book written by his ex-wife, due out in the fall, reports that in the early '70s, Mr. Gleason was taken by then-president Nixon to a secret Air Force Base where the bodies of the four aliens were being kept. Aides to the ex-president have issued a firm "no comment" to the story.

The major hitch in all of this has to do with the authenticity of the document. The general consensus appears to be that the document is a forgery. A government employee believes that if a document did exist, it would not resemble the document that has surfaced. ●

Modern Agriculture - Horticulture

Est. 1983

H.P.S. CONVERSION BULB **AVAILABLE HERE!**

For All Your Growing Needs

151 ALKIER ST. BRENTWOOD
N.Y. 11717 (516)231-9472

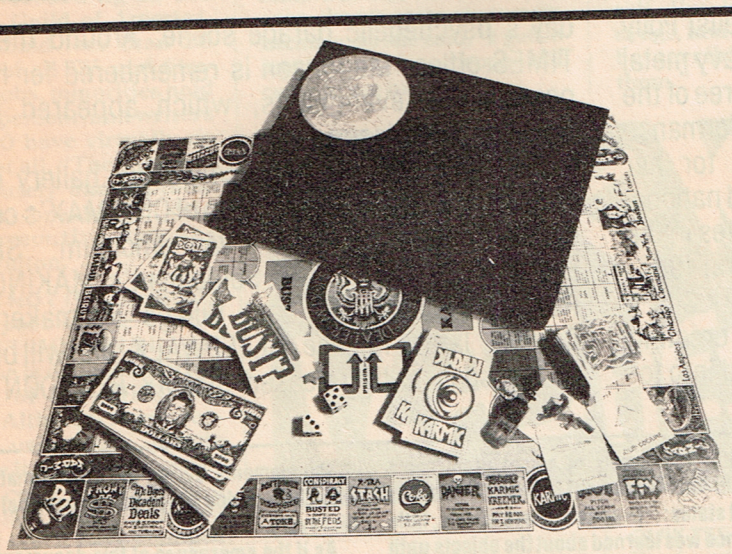
VISIT OUR SHOWROOM
MON–FRI 12-8
SAT 10-8

Halides, H.P.S., Hydroponics, Nutrients, Growing Mediums, CO_2 Units, Exhaust Blowers, Pots, Saucers, Much More . . .

Free Gift With Each Light Order

© COPYRIGHT 1987 MAH Orders outside NY 1-800-227-9351 C.O.D. VISA MasterCard

DEALING? SEE HIGH TIMES CLASSIFIEDS (p. 78)



The Official Dealer McDope Game.

Code	Quantity	Price	Cost
McG	_____	x $19.95	_____
Add $1.75 postage & handling ($2.50 foreign)			_____
N.Y. residents add sales tax			_____
TOTAL			_____

Make check or money order payable to HIGH TIMES. Mail to: HIGH TIMES Products, P.O. Box 1645, Grand Central Sta., New York, NY 10017. Please allow six to eight weeks for processing and delivery.

Name _____

Address _____

City _____ State ____ Zip _____

HIGHWITNESS NEWS

continued from page 21

ARMY WINS LSD WAR

The Supreme Court ruled that a former Army sergeant has no legal right to sue for damages after being dosed with acid during secret chemical warfare experiments.

Former Master Sgt. James Stanley, 53, volunteered to be one of 4,000 human guinea pigs given LSD and mescaline in what he thought was a test of gas masks and protective gear. In 1958, on four different occasions, he was given water laced with LSD.

Stanley now says his Army-inspired acid trips led to the breakup of his marriage, and left him unable to work or think coherently. He left the military in 1969, but didn't learn about the tests until 1975, when the Army looked him up for a follow-up study. He sued the Army in 1978, but is now at a legal dead end.

The Supreme Court decision was close: five to four, and the case bitterly divided the court. Justice William Brennan compared the Army's secret experiments to those of the Nazis in World War II. "Soldiers ought not to be asked to defend a Constitution indifferent to their essential human dignity," he declared. Justice Sandra Day O'Connor said, "Conduct of the type alleged in this case is so far beyond the bounds of human decency that, as a matter of law, it simply cannot be considered a part of the military mission." But the majority opinion, in Justice Antonin Scalia's words, believed that allowing Stanley's lawsuit to proceed would "disrupt the military regime." ●

EAST BERLIN —ILLINOIS

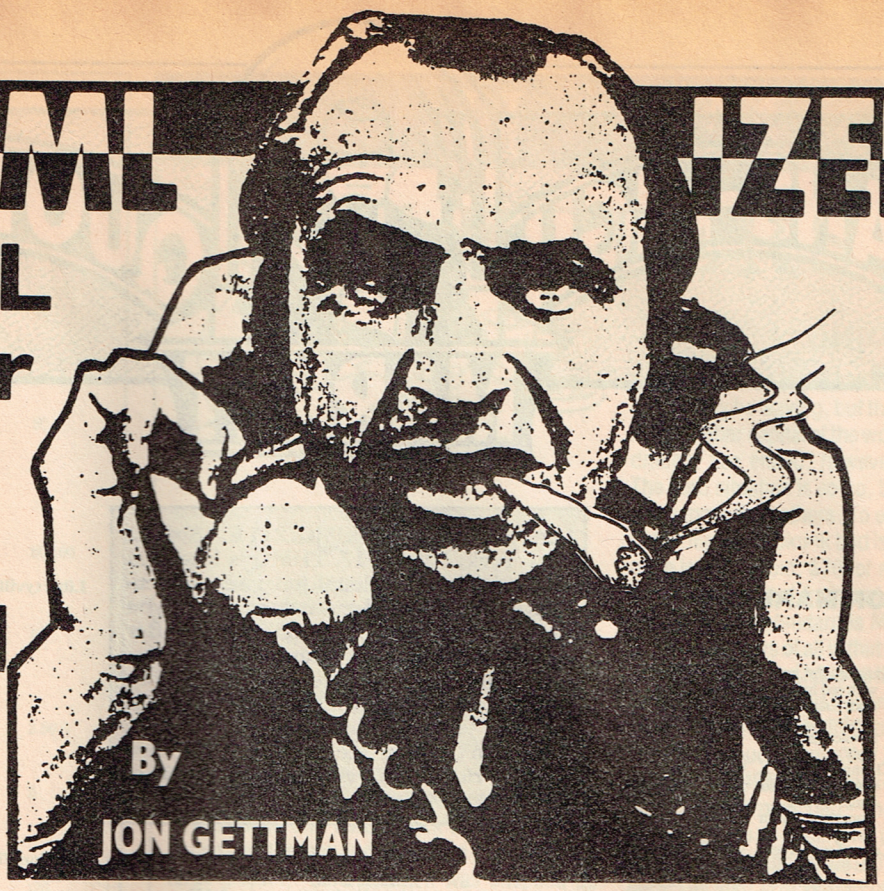
Leave your M-16 rifles at home if you're planning to cruise in the "Land of Lincoln." Ditto for drugs and open containers of alcohol. The Illinois State Police have been conducting regular surprise inspections since the Illinois Supreme Court upheld their constitutionality in 1985.

Last summer, 3,640 drivers were subjected to a "safety check" between 11 p.m. and 4 a.m. on Interstate 55 between St. Louis and Chicago. "This is the first time (in Illinois) that troopers have ever closed the main traffic lanes of a major interstate highway and temporarily detoured traffic into a rest area for the purpose of safety inspection," State Police Director Jeremy Margolis said in a statement. Someone should do a safety inspection on the Bill of Rights.

Thirty-five troopers and three police dogs (police dogs for a "safety inspection"?) collared 83 people for traffic-related arrests, 20 arrests for seat belt violations, 41 arrests for illegal transportation or possession of alcohol (many of these were Cardinals fans enroute to cheer their team against the Cubs), five arrests for possession of marijuana, four for people wanted on outstanding warrants, one for possession of a hypodermic syringe, one arrest for DWI, and one arrest for carrying concealed weapons (three handguns and an M-16). ●

continued on page 30

NORML director admits he gets "stoned on the job"!!



By JON GETTMAN

One of the funniest arguments against legalizing marijuana is that more people would use it if it were legal. I used to disagree, on the theory that the law isn't much of a deterrent. **However I've changed my mind.** Whoever makes an argument like that implies that marijuana has attractive qualities, and that if people were left alone they would take advantage of what marijuana has to offer them. So from now on, my response to that argument will be to agree, and add, **"Wouldn't that be great!"**

Let's face it—people smoke marijuana because they like it. **We think it's a wonderful drug.** I've consumed marijuana for 15 years and, I must say, am proud of it. More to the point, I'm proud to be associated with all the people I've met who also like to use marijuana. Marijuana smokers are wonderful people. They are generally kind, considerate, humane, caring, hardworking, imaginative, and above all else, principled people.

As a group of people we have our own examples of the southern end of a northbound horse. And for that matter, a lot of people use marijuana who don't think of themselves as being **"potsmokers."** The ones who do, who **"love to smoke pot,"** I've personally found to be **wonderful** people. Wouldn't it be nice if there were **more** of them?

Avid marijuana smokers develop a heightened sense of irreverence. Little is taken as being straightforward. Just as hip humor from Lenny to Screaming Sam knows no taboo, the high frame of mind roams around questioning everything. We've learned not to take ourselves so seriously that we lose our sense of perspective. Getting high is **not** about fuzzing the brain. That's what **beer**'s for. Getting high is about **awareness**.

Why do people smoke marijuana? It provides them a sense of satisfaction that becomes a **positive** force in their lives. The common explanation is "I smoke a joint after work to relax." It's an accurate observation. Marijuana's medical effects include relief from aches, pains, and cramps and its effect on the mind disrupts the subject's train of thought. That's where the **awareness factor** comes into play.

One goal of after-work relaxation is to **forget** about work for a little while. **Lt. Col. Ollie North**, clearly, is **not** a pot smoker. When someone concentrates on something for a long period of time, their mind becomes very engaged. Constant obsession is **bad** for anyone's mental health, and a key tool in coping with the industrialized world is learning how to devote one's attention to **more than one thing**. Lt. Col. North, for example, knew one world and one ethic: **the world of his job**. His total immersion, and his lack of any counterweight to its perceptual influence, was his tragic flaw.

The stoned mind has no train of thought. It is, however, capable of **directed thought.** My columns are an example—most are outlined and drafted, if not finished, **while I am high**. A train of thought is stuck in its tracks; it develops in a predictable fashion. The stoned mind abandons the train and hops into a spaceship that can travel in any direction, in any dimension. It can hover about a plane of creative bursts, or cruise an arc through several broad concepts or simply follow the old train of thought, pausing to explore each whistlestop along the way.

The stoned mind wanders a lot. With practice, this eventually enables the nonstoned mind to use its imagination more effectively. This is a source of power, and this explains why people love to smoke marijuana. **(And why it bugs the powers that be.)**

Smoking marijuana is not something that should be taken too frivolously, but neither should it be taken too seriously. Many people justify their marijuana use by claiming their use is religious. **Perhaps it is.** I believe in a political right of self-determination that is even more fundamental than a right to freedom of religion. But the fact remains that many, many marijuana smokers enjoy getting high, and that enjoyment gives them **spiritual satisfaction** which is a source of **spiritual power.** Others may not approve of this, but who cares what they think? **This is America**, they need to learn to mind their own business—it's something we call tolerance. ●



Send quotations to: THMQ, 211 E. 43rd St., New York, NY 10017. THMQ is intended solely for informational purposes. All entries should be typed or neatly written: If you are unable to compose a legible entry after testing your samples, please wait until you have control of your penmanship before sending us your information. Marijuana is listed by ¼-ounce, ounce, and pound prices only. Don't bother sending prices for hard drugs. Prices in this issue are current as of July 15th, 1987.

MAJOR MARKETS

Atlanta, GA	Expando Pot, green with red hairs, tight buds, "expands your lungs, an excellent high"	¼-oz oz ½-lb	40 150 730
	Chamblee Smoke, green, red-haired buds, "great, stone, worth your money"	¼-oz oz ¼-lb	40 150 350
	Cedar Town Weed, red-haired buds, "musty taste can be taken away with Celestial Seasonings teabags, good high"	¼-oz oz lb	40 150 1200
	Acid, "one hit will get you"	hit	5
Chicago, IL	Indoor Skunk, "tastes harsh, but gets you all the way there"	¼-oz	45
	Moroccan, "fresh, excellent"	gm	10
Las Vegas, NV	Puna Buds, "rare"	oz	400
	Kona John, sticky and moist, "the best"	oz lb	300 2500-3000
	Hash plant seeds	ea	5
	Coke, 90% pure, "less and less users"	oz	1500

AROUND THE U.S.

Akron, Ohio	Tri-state Bud, "who's been sitting on this?"	¼-oz oz	25-30 100 & up
	Garbage brown, "where do they grow this shit—sore throat herb, stay away"	¼-oz oz	25-40 100-160
	CA *indica* skunk, "still here, surprise"	¼-oz	70
	Mexican Sinse, "some great, most not that great; one variety with green, tight buds with a taste of Santa Marta bow—excellent"	¼-oz ¼-lb	25-50 350
Chesnut Ridge, PA	Mexican sinse, red-haired	¼-oz oz	35 120
	Unidentified sinse, "very good, local"	¼-oz	35
	Skunk buds, "very tasty"	¼-oz	50
	Shrooms, both fresh and dry, very big, each cap is 5-8 gms., "very good"	gm	3-6
	Acid, all kinds	hit	3-5
Cleveland, OH	Huge buds grown in South Carolina, "excellent"	¼-oz oz ¼-lb	35 110 400
	Jamaican brick, gooey bud mass, "makes you hungry, then sleepy, primo"	¼-oz oz ¼-lb	50 175 650
	Shrooms	2-gms ¼-oz	15 35
Coronado, CA	Afghani/Colombian, "B.B. buds, fasten your seat belt"	oz	300
	Afghani/Thai, loose buds but very, very sticky; "one of my best"	oz	300
	Homegrown sinse, "leg-sized colas"	oz ¼-lb	200 425
	Indica/sativa, "too potent for me"	oz lb	225 2000
	Hawaiian sinse, "lately it's been very light green and sticky, sticky, sticky; always excellent"	oz	250
	Thai buds, assorted hybrids, "pretty good re-creation for being grown in CA"	oz	250
	Mushrooms fresh from Oregon, "inconsistent supply"	gm oz lb	5 180 1500
Kent State, OH	Afghani-*indica*, "paralyzing and expanding—the best"	¼-oz	75
	Local indoor *indica*, "excellent taste and stone"	¼-oz	60
	Jamaican, "o.k. to good"	¼-oz oz	35 125
	South African, "wild *sativa* with different but nice high"	¼-oz	35
	Local *sativas*, "green but immature"	¼-oz oz	35 120
	Brown weeds, "o.k."	¼-oz	30
	Shrooms, cubensis, "good and strong, fast tolerance though"	oz	130
	LSD blotters include Medieval Symbols, Globes, Stars (black, gold, purple), hearts—"most were pure, not super strong, but good"	hit 100	3-4 200 and up
Libertyville, IL	Brown, non-commercial "Buttered Pretzels" weed	¼-oz oz	30 100
	Orange 'Lumbo, "I dunno what they grow anymore, I just smoke it"	¼-oz ¼-lb	30 325
	Donkey Schlong skunk buds, "sticky and moist, very pungent aromas"	¼-oz ¼-lb	50 450
	Shrooms, tried growing 'em, but no good; need them bad"		
Mission Viejo, CA	Hawaiian, smells like fresh pineapples, one-toke, hard to find, "da crypt"	oz	180
	Thai, lots, "dry but stoney"	¼-oz oz	35 140-150
	Sinsemilla, red hair, "surprisingly good, everywhere"	¼-oz ¼-lb	25 220-240
	Humboldt County, beautiful/tight/lime-green nodules, "one of the longest-lasting highs around"	¼-oz ¼-lb	45 450
	Afghani, full body high, heavy, "too good"	¼-oz oz	60 175
	Mushrooms, "coming back"	gm	4-7
	LSD, Purple Pyramid, "definite mindfuck"	one	7
	MDMA, "when it's around"	one	15-20
	Cocaine	gm ¼-oz	80-90 450-500
Newark, DE	Domestic sinse bud; "green, tasty, potent—also plenty seeds"	¼-oz	40
	Jamaican, "dirt-weed, but it does the job"	oz	65
	Colombian, "good 'lumbo, always around in the summertime"	½-oz	50
	Mushrooms, "around once in a while, quality varies, but usually good"	¼-oz	35
	Red Lightning, homemade Italian wine, "recipe from my grandfather"	bottle	1.25
Northern Maine	U.S.-Jamaican hard bud, high THC pot, "excellent"	¼-oz	50
	New England grown buds, "alright high, alright taste"	¼-oz	45
Pittsburgh, PA	Northern Lights 5x8 indoor, "brutal buzz, long-lasting"	¼-lb	650
	Northern Lights x Afghani #1, "very sticky, skunky odor, like smoking a 'lude"	¼-lb	650

Pomona, CA	Bulk Thai, "tons of it, though the quality varies bag to bag"	¼-oz	40
	Christmas Tree skunk, picked before the smell sets in, smells sweet as candy, "my personal favorite"	oz	220
	Dirtweed Colombian, "just puts you to sleep, doesn't get you high"	oz	80
	Stinky skunk, "overrated for the price"	¼-oz	35
	Mexican Red Hair, very few seeds and lots around, "best buy in town"	oz	80-100
	Green shake, "great for brownies and giant Rasta joints, skunk smell, no high"	oz	10
	LSD, Red Skull (Grateful Dead), "'spose to be Ozley, I doubt it"	hit	2.50-5
	LSD, Blue Dots, best to crush them and snort it, "great for playing golf on"	hit	2
Springfield, MO	Ozark Skunk,	¼-oz	35
	"seedless and primo"	oz	120
	Red Hair Sinse,	¼-oz	30
	"sometimes seeds, always good"	oz	120
	Mexican shitweed	¼-oz	20-25
		oz	90
	Good Colombian,	¼-oz	30
	"buttery smell, one-hit shit"	oz	100
	Shrooms, "homegrown and fried my mind"	gm	6-7
	Acid, Octopus "mediocre"	one	5
	Acid, White Blotter, "good to shitty"	one	5-7
	Acid, Purple-Blue Tile, "knocked my socks off"	one	5
	Acid, New World, "far-out trip"	one	10
	Coke, 70-90% pure	¼-gm	25
		8-ball	250
Tampa, FL	Killer skunk, Ft. Myers brand	oz	180-200
	California Orange, "fantastic"	oz	200
	Average killer Fla. sinse	oz	90
		¼-lb	350
		lb	1100
	Brown pot, "fuck that"	oz	60
	Shrooms, "they're free, yahoo"		
	Acid	hit	4
		sheet	300
	Cocaine	1/8-oz	225
		oz	1000

IN THE BOONDOCKS

Beaver County, PA	Red Bud Colombian, 100% bud	lb	1100
	Red-haired Mex sinse	lb	1500
	"Arm's Length" Mexican trees of beautiful *indica* buds of skunk, whew...lots of lumber too	lb	2200
Blacksburg, VA	B-burg Bud	¼-oz	35
		oz	110
	Green Buds,	¼-oz	40
	"moldy and good"	oz	120
	Acid, Bozo, "huge and potent"	hit	2
	White CA Blotter	hit	2.50

THMA LETTERS



CANADA

I hope you print this letter, because it will let people know that Canada is doing pretty good when it comes to gettin' high. I just arrived back home in Kamloops, British Columbia. I was visiting friends in Toronto, where I was introduced to a fellow who deals in the smoke. After one hour of hooting, he sold me an ounce of something (pot) very light green and very stinky—fucking awesome—for only $75 Canadian money. The next day, a friend and I went back and bought four pounds of the pot and ¼-pound of **real,** black hash (import). So anyway, it was snapped up pretty fast when we got back home. Come up to Kamloops and party with some Canadian heads. No, we don't live in igloos! In May-August '86, we had hotter temps then Arizona, Hawaii and California. We grow some pretty good homegrown bud too. Ciao for now.

Captain Cloud and Lethal Lee
Kamloops, B.C., Canada

INDIANA

The boys in July's Issue are right on (''Crybabies'' Steve and the Holland Grower in Texas). I'm growing seeds from Holland and couldn't be more pleased. The bullshit I grow now goes for $35 a ¼-ounce and fuck everyone who thinks it grows free!!! I'm heartbroken over the Oregon vote. Here we ''can't'' vote on what we want.

Diplaced Okies in Hoosier Country
Southbend, Indiana

P.S.: I couldn't go on without you!

MISSOURI

Here in Springfield, Missouri, the summer of 1986 was almost totally dry! All that was around was low-potency, shake leaves. But today is a different story. In the Ozarks we raise the finest, outdoor, Ozark skunk. During the fall, weed started coming around again. There's usually quite a variety of buds in Springfield, and surprisingly enough, it's still fairly low-priced: $30-$35 per ¼-ounce.

Jokin', Smokin' B. and S.
Springfield, Missouri

OHIO

Yes, R. of Akron is still here. Employment and industry may be leaving, but the people are the best in the rubber capital of the world. The battle of the drought has ended, however the war goes on. The herb situation is so-so, but most of it works; some more than others. To everyone's surprise, California **indica** skunk bud is still around, but the price is getting old: $70 for a ¼-ounce. There is some tri-state bud from last year that is in good condition. The standard is Mexican sinse.

The best news of all is that I have expanded my outdoor garden and have 32 **indica/sativa** plants. Last year I harvested seven female plants that were 6-13 feet. My family and I smoked fresh, fat, sticky, free buds from early September until the beginning of 1987. We smoked the world's best herb—homegrown bud—for four months and did not have to pay a dime for it. My point is simply this: Stop depending on other people for your herb. Get your lazy ass out of your chair, turn off your television and start growing your own herb! There is no feeling in the world like the one you get from growing your own herb. Sure there is a risk. I know the risks firsthand. The grower's biggest risks are rip-off and arrest, in that order. I have had two rip-offs in the last five years. Going to your grow area only to discover that some scum has taken your bud is the grower's worst fear. Last year I moved my grow area deeper into the woods and had one hell of a harvest! If I'm lucky enough not to have my crop ripped-off or get arrested this year, I will be smoking the world's finest bud until next year's harvest. Wish me luck! And to all the others with the same dream, I do indeed wish you luck. Let's make this the record harvest of all time!

R. ''grow your own'' Rasta
Akron, Ohio

TENNESSEE

In Memphis, Tennessee we have some great Jamaican that just came in. It's very fresh. So far no one can smoke a whole joint. It's two-toke smoke. It's in bricks and very sticky, going for $40 a ¼-ounce and $1920 a pound and up.

Mary
Memphis, Tennessee

SOUTH CAROLINA

I think you'll find this place is out in the boondocks. I moved to Houston a couple of weeks back after living in Myrtle Beach, SC for 18 years. With Florida SLED tightening up, the mid-east coast resorts are likely suspects for the dealers who are searching for new homes.

Kind of bored but high
Houston, Texas

IS NFT FOR YOU?

DOES YOUR HYDRO SYSTEM USE A BULKY MEDIUM AND AWKWARD PLASTIC BUCKETS?

IF SO, IT'S TIME FOR YOU TO MAKE A CHANGE TO THE MOST ADVANCED GROWING SYSTEM AVAILABLE TO THE HOME GARDENER.

IMAGINE 11 PLANTS GROWING IN A SINGLE TRAY SIX FEET LONG, SIX INCHES WIDE, AND ONLY TWO INCHES THICK.

CIRCULAR WATER WORKS

The CIRCULAR WATER WORKS CO. has designed an NFT (Nutrient Flow Technique) system for home growing. This system is the result of testing with thousands of plants from several varieties. A few of NFT's advantages are

*continuous circulation	*no plant water stress
*low set-up cost	*ideal for sea of green
*two sizes	*easily expandable
*superior root aeration	*unique rinse valve
*no bulky mediums	*quick, easy harvest
*no system failures	*up to 11 plants

(pump and nutrient tank not included)

ORDER DIRECT FROM THE FACTORY AND SAVE!!

6 ft. unit (up to 11 plants).....$47.00
3 ft. unit (up to 5 plants).....$32.00
5 replacement mats.....$ 8.50

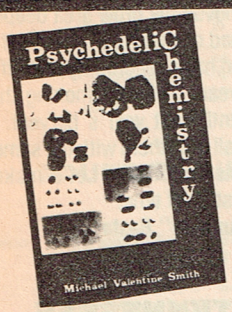
**********POSTAGE PAID**********

For fastest service send money order to

CIRCULAR WATER WORKS
7320 S.W. Beav. Hills. Hwy. #208
Portland, OR 97225 ph (503)244-3815

30 day money back gaurantee-most orders shipped in 48 hours C.O.D. welcome- Quantity discounts- personal checks held 20 days

PSYCHEDELIC CHEMISTRY



PSYCHEDELIC CHEMISTRY
by Michael Valentine Smith
5½ x 8½, 204 pp, illustrated, soft cover.

The best and most complete book ever written on how to manufacture drugs! Out-of-print for years, now available again in a completely revised and updated edition. THC, Magic Mushrooms, Mescaline, Harmaline, Muscimole, LSD, Cocaine, and much, much more! Use the handy coupon below to order your copy today -- you will be very pleased, we know.

HT

Loompanics Unlimited
PO Box 1197 Pt. Townsend, WA 98368

Please send me copies of PSYCHEDELIC CHEMISTRY. I enclose $14.95 + $2.00 postage & handling for each copy.

Name _____
Address _____
City _____
State _____ Zip Code _____

LETTERS

continued from page 14

HAWAIIAN HIGHS

In the April '87 issue there was an article titled "Psychedelic Plants of Hawaii." It mentioned the Sensitive Plant. At what stage are the roots harvested? How are they processed for smoking and eating? What amount is a hit?

—A nature lover and old DMY fan from the Ozarks

I enjoyed your pictorial of the psychedelic plants of Hawaii. I must say, though, that the test was far too brief. With respect to coleus, for example: Are all coleus psychoactive? How is the tea best prepared? Are there other ways of using it? And what are the possible risks and effects? Thanks for a great mag, folks!

—A.H.
Mackenzie, British Columbia

Mel Zimmer, author and photographer of the Hawaiian article, responds: **Let me start by saying that my interests and expertise lie mainly with mushrooms, and that my familiarity with herbals does not run as deep. In my travels I have learned how plants common to our gardens and homes contain either lethal or psychoactive substances. I take the approach that those substances are sometimes available through simply chewing—as with betel, coca, and coleus—or available only through distillation in a laboratory, i.e., the lysergic acid in woodrose seeds.**

An infusion of the roots of *Mimosa hostillis*, called *jurema* or *yurema*, are drunk by various tribes in Eastern Brazil in ceremonies usually connected with warfare, according to Schultes. The active principle with *hostillis* and the other species of Mimosa is N, N-dimethyltryptamine (DMT). It is my understanding that the Sensitive Plant (*Mimosa pudica* et al) is among them. *Coleus pumilus* and *blumei* are reported to be used by the Mazatecs of Oaxaca Valley in Mexico. They either chew the fresh leaves or pound and mix them with water, strain off the pulp and then drink the liquid.

I have used DMT myself in the past, but quite honestly, I have come to believe it to be a very dangerous drug, and one that is certain to cause neurological damage if abused. I am simply trying to convey the wonder of the psychochemical world of plants, and a bit of knowledge. Be careful what you do with that knowledge. Placing the huge flowers of the Datura tree at your bedside will sedate you into deep slumber, and I have used it that way. I would not care to use Datura the way Don Juan used it. The choice is there for us all.



MEL ZIMMER

NO PLACE TO HIDE

We are a couple in our 40s, retired on a modest income, and are in need of your advice. Where on this planet can one grow and smoke cannabis and be totally legal? We just returned from Alaska and found they are living in a police state just like the one we have here in Arkansas. We saw a segment on "60 Minutes" about four years ago about an island somewhere between the United States and South America. There was a church on the island and its members smoked a pound a week. Do you know the name and location of this place?

—E&M
Witts Springs, Arkansas

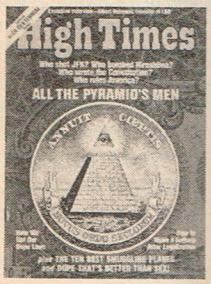
Sorry, we missed the segment, but maybe one of our readers caught it. If you want to grow for your own head stash, we recommend Holland. It's not entirely legal, but if the cops bust you, they just confiscate the plants. Few people face criminal prosecution. Skunk #1 clones are sold openly in many stores for around $5.

continued on page 68

our acid-drenched psychedelic back issue offer!!!

This month we've decided to give HIGH TIMES' readers an unprecedented opportunity to buy all of our back issues that feature LSD, 'shrooms, and psychedelic drugs.

July 1976 No. 11
RARE ISSUE!
Interview with Albert Hofmann (the inventor of LSD), Your Daddy was a Weirdo (by Glenn O'Brien), How We Got Our Dope Laws, Sinsemilla.
$25.00



May 1982 No. 81
Flesh of the Dead—Psychedelic Mushrooms, Interview with Bill "Zippy" Griffith, Hitler's Shocking Drug Habits, Dr. McDope comic.
$5.00

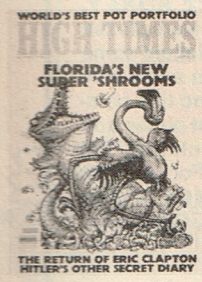


April 1986 No. 128
Acid Dreams: The CIA, LSD and the '60s Rebellion, Neo-psychedelia in San Francisco, America's Number One Crop—Marijuana.
$5.00





Dec. 1976 No. 16
DOUBLE ISSUE!
Superfly—The Toadstool that Conquered the Universe, Mescalito, Kissinger vs. 40 Tons of Marijuana, Setting Up a Psychic Gym.
$15.00

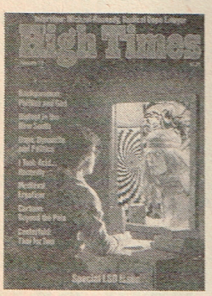


Nov. 1983 No. 99
Florida's New Super Shrooms, Psychedelic Express, The First-ever Ask Ed, International Pot-pourri, Dr. Atomic comic.
$5.00



Aug. 1986 No. 132
The Acid Apocalypse, Neo-psychedelia, Inside Colombia and Negril, the Fleshtones, Smuggler's Journal, The Fruit Palace.
$5.00

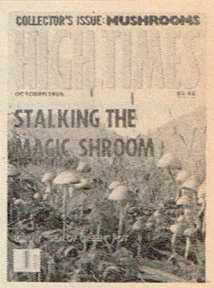
Jan. 1977 No. 17
ORDER NOW
LIMITED SUPPLY!
Special LSD Issue—Whatever Happened to LSD?, LSD Purity, The Pre-Electric Rye Bread Acid Test, Stalking Bigfoot, Kim Deitch comic.
$10.00



Aug. 1984 No. 108
COLLECTOR'S EDITION!
LSD: Will the Trip Ever End?, Being High, Part II: Psychedelics, One White Tab, Part I, William Burroughs' Moroccan Scrapbooks.
$10.00



Oct. 1986 No. 134
ORDER NOW
SHORT SUPPLY!
Stalking the Wild Shroom, How to Identify Killer Shrooms, Blue Honey—A Secret Recipe (by Mel Zimmer), A Stoned Age (by Flick Ford).
$10.00





Feb. 1981 No. 66
My Acid Trip with Groucho (by Paul Krassner), Interview: Terry Southern with William Burroughs, Keef Richards Goes to the Dentist.
$5.00



Dec. 1985 No. 124
LSD Flashback, TV's Electronic Evangelists (by Ann Magnuson), Shroom centerfold, The Real Nicaraguan Connection.
$5.00



Aug. 1987 No. 144
Journey to the Mind's Eye, Dock Ellis and the Electric Baseball Game, The 10 Worst Things that Happened to Rock Music.
$5.00

DO NOT SEND CASH! Send check, or money order payable to:

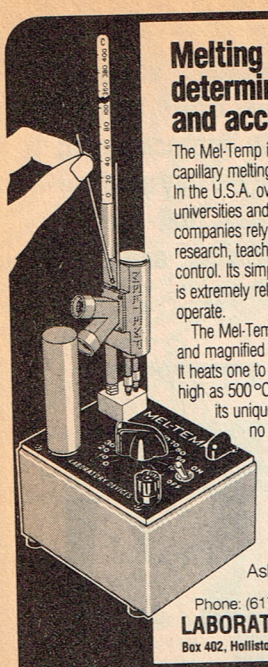
HIGH TIMES BACK ISSUES
211 East 43rd Street, New York, NY 10017

CHECK BOX:

ISSUE #11 PRICE $25.00 ☐
ISSUE #16 PRICE $15.00 ☐
ISSUE #17 PRICE $10.00 ☐
ISSUE #66 PRICE $ 5.00 ☐
ISSUE #81 PRICE $ 5.00 ☐
ISSUE #99 PRICE $ 5.00 ☐
ISSUE #108 PRICE $10.00 ☐
ISSUE #124 PRICE $ 5.00 ☐
ISSUE #128 PRICE $ 5.00 ☐
ISSUE #132 PRICE $ 5.00 ☐
ISSUE #134 PRICE $10.00 ☐
ISSUE #144 PRICE $ 5.00 ☐
TOTAL_____

NAME _____
ADDRESS _____
CITY _____
STATE _____ ZIP _____

Send coupon or a facsimile. Please allow 6-8 weeks for processing and delivery.



Melting points determined easily and accurately

The Mel-Temp is a patented capillary melting point apparatus. In the U.S.A. over half of the universities and "Fortune 500" companies rely on Mel-Temps for research, teaching and quality control. Its simple, robust design is extremely reliable and easy to operate.

The Mel-Temp features lighted and magnified sample viewing. It heats one to three samples as high as 500°C and, because of its unique design, requires no messy heat transfer fluids. $295.00

Ask for Bulletin 90A

Phone: (617) 429-1716 or write:
LABORATORY DEVICES
Box 402, Holliston, MA 01746-0402, U.S.A.

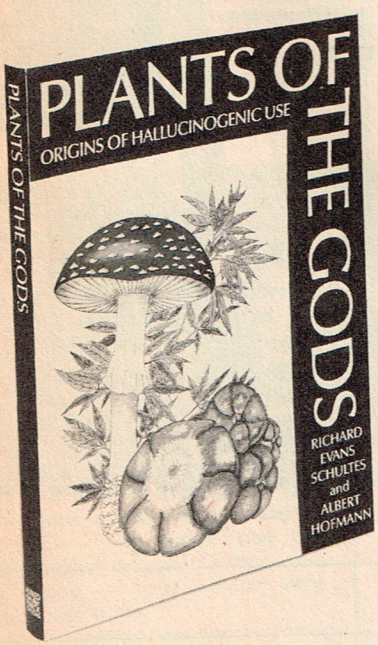
Attention Mel-Temp Owners
Laboratory Devices is pleased to offer a thermocouple kit which we guarantee will *dramatically* improve the performance of your Mel-Temp!

BEE BUZZ HONEY
"THE HONEY WITH A STING"

The Honey with a Sting

Like a little sting in your sweet honey? Try **BEE BUZZ HONEY.** Carefully selected bees were placed in fields where they collected some very special pollen from some very special plants. Many find this combination of special plant pollen and honey especially stimulating. We think you'll get a hit too. For a sample jar, send $9.95 to **BEE BUZZ HONEY,** P.O. Box 1865, Columbus,

VAN DER MARCK EDITIONS



PLANTS OF THE GODS

Origins of Hallucinogenic Use

by Richard Evans Schultes and Albert Hofmann

This authoritative book explores the use of hallucinogens by tribal peoples. Spanning various disciplines and profusely illustrated, it includes a complete lexicon of over 90 hallucinogenic plants and a guide summarizing their preparation, effects, and chemical characteristics. 192 pp.; 7¾ × 10½ in.; 125 color plates, over 300 b/w illustrations. Price $16.95

Alfred van der Marck Editions/1133 Broadway, Suite 1301
New York, N.Y. 10010 (212) 645-5150 (800) 999-BOOK

HIGHWITNESS NEWS

continued from page 24

HASH DEAL FALLS FLAT

Author Norman Mailer claims that two friends of his received heavier sentences because they did not implicate him as a financial backer in a $15 million hashish deal. Bernard "Buzz" Farbar and Richard Stratton went on trial in 1984, and are serving 6- and 10-year jail terms. They were convicted of smuggling 7½ tons of hashish from Lebanon. Although Mailer flatly denies being involved in the deal, federal officials believe Mailer provided some seed money based on statements by Sobhi Hammoud, who participated in the deal. "I had some idea of what he [Stratton] was doing," Mailer said. "I didn't want to know too much." ●

THE CONSTITUTION: THE ROAD TO SANITY

Chief Judge Sol Wachtler and his constituent judges on New York's highest court upheld the idea of civil liberties by refusing to legitimize random drug testing in that state, saying that government agencies cannot implement drug testing without "reasonable suspicion."

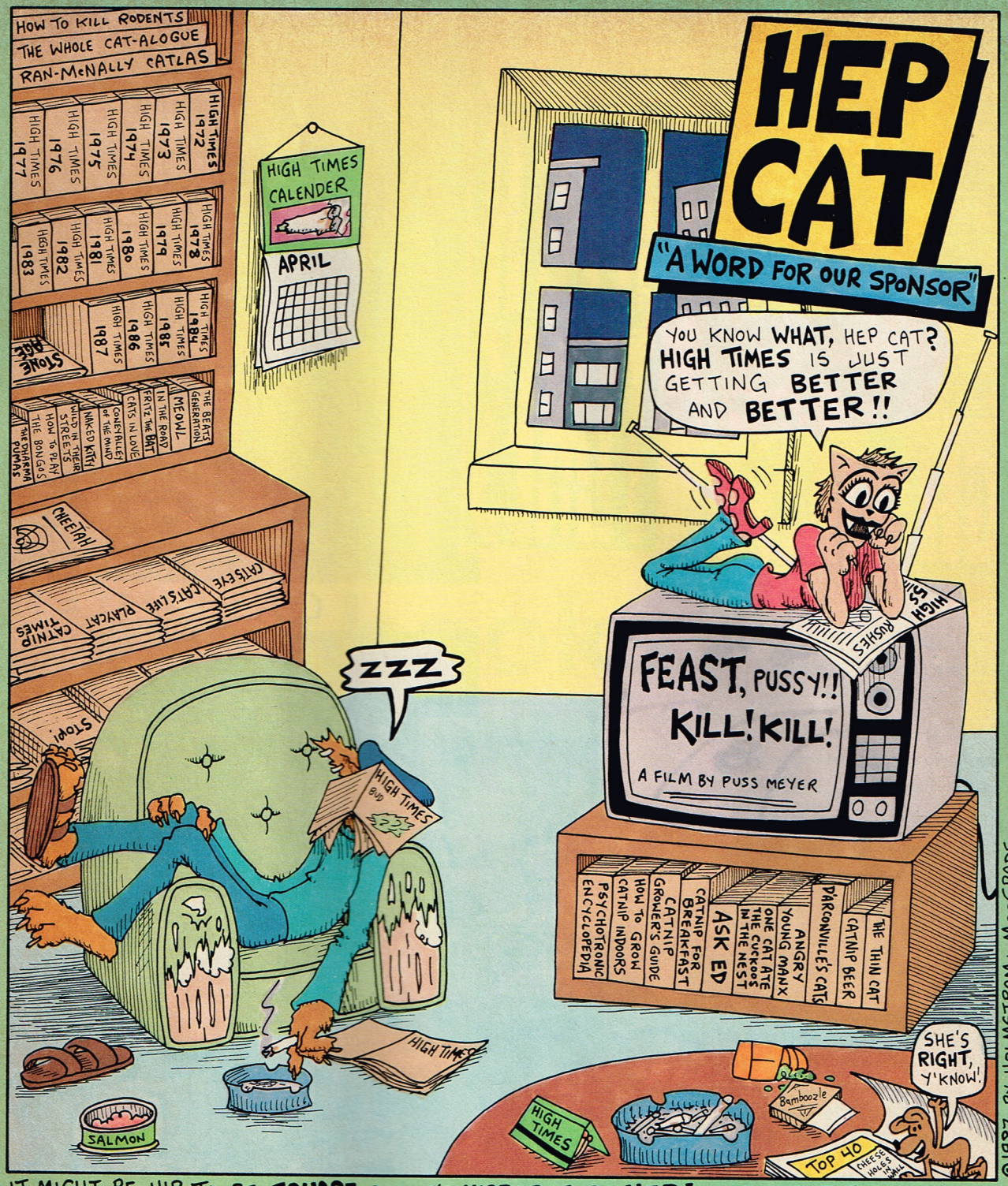
In a case involving a Long Island school district intent on forcing 22 probationary teachers to submit to urine tests as a condition for winning tenure, the court ruled 7 to 0 against unreasonable searches for evidence of drug abuse. This decision could become a precedent as other state courts are asked to rule on the legality of random drug tests both in the public and private sectors.

By basing his conclusion on the state and federal constitutions, Judge Wachtler, who wrote the decision, might have prevented the federal Supreme Court from being able to overturn New York's ruling. ●

NEW DRUG LAWS IN NEW JERSEY

"Today, we take off the gloves in fighting the enemy of the 1980's: drugs," said New Jersey Governor Thomas Kean, as he signed new legislation calling for drastic penalties for drug-related offenses in the state. The Comprehensive Drug Reform Act requires penalties ranging up to 25 years in prison without any chance for parole and fines up to $500,000 for certain drug crimes. However, the bill will not take effect until the Legislature passes a bond issue for $198 million to fund construction of new prisons. It is estimated that the law will add from 750 to 1,000 new inmates in the next five years to the state's prison system, and jails are already filled to 115 percent of capacity.

The Governor claimed that New Jersey's new law will prove more effective than other similar get-tough crackdowns that call for stiff penalties, such as New York's Rockefeller Laws, because the tough sentences will be combined with education and rehabilitation. Details of those programs, from curriculum to funding, were not made available. ●



IT MIGHT BE HIP TO BE **SQUARE**, BUT IT'S **HIPPER** TO BE **HEP!** SO **SUBSCRIBE**, ALREADY!

UNITED STATES
☐ 1 YEAR $29.95
☐ 2 YEARS $54.95

CANADA & FOREIGN
☐ 1 YEAR $37.45
☐ 2 YEARS $68.95

Save 42% off newsstand price (2 year subscription rate).

HIGH TIMES
SUBSCRIPTIONS
P.O. BOX 410
MT. MORRIS, IL 61054

NAME

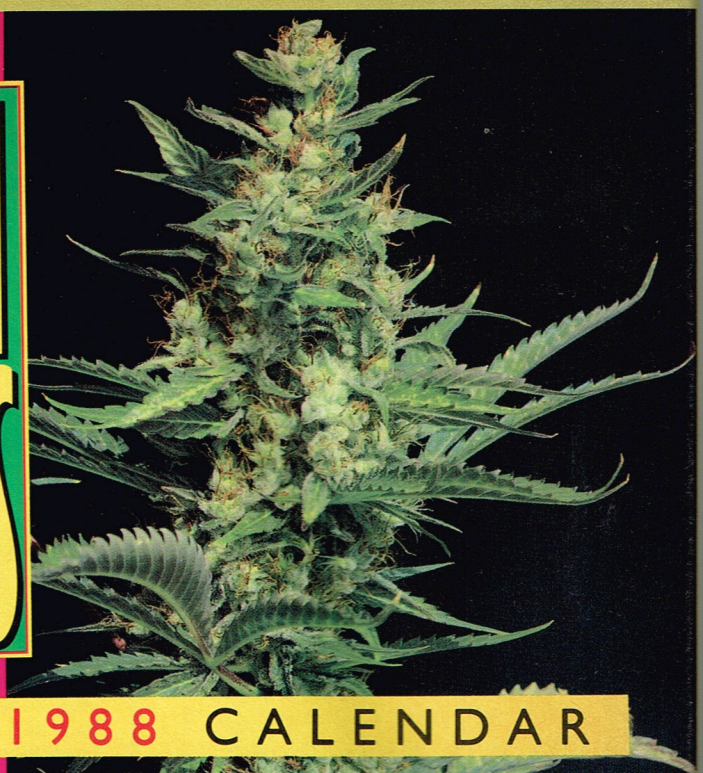
ADDRESS

CITY STATE ZIP J.H.1.

ENCLOSE PAYMENT (CHECK OR MONEY ORDER)

Be the first on your block to get the new 1988 HIGH TIMES Calendar!

HIGH TIMES



1988 CALENDAR

● We ransacked our photo files to find the most psychedelic pics and the stickiest bud photos, then we rolled them up into the all-new and improved 1988 **HIGH TIMES CALENDAR.** Don't blow it! Be the first kid on your block to wave your freak flag high! Fill out this coupon and send it in today for your exciting, new **HIGH TIMES CALENDAR!** ●

only $6.95



DO NOT SEND CASH!

Send check or money order payable to:

HIGH TIMES CALENDAR
211 East 43rd Street
New York, NY 10017

Send me_____ Calendars at $6.95

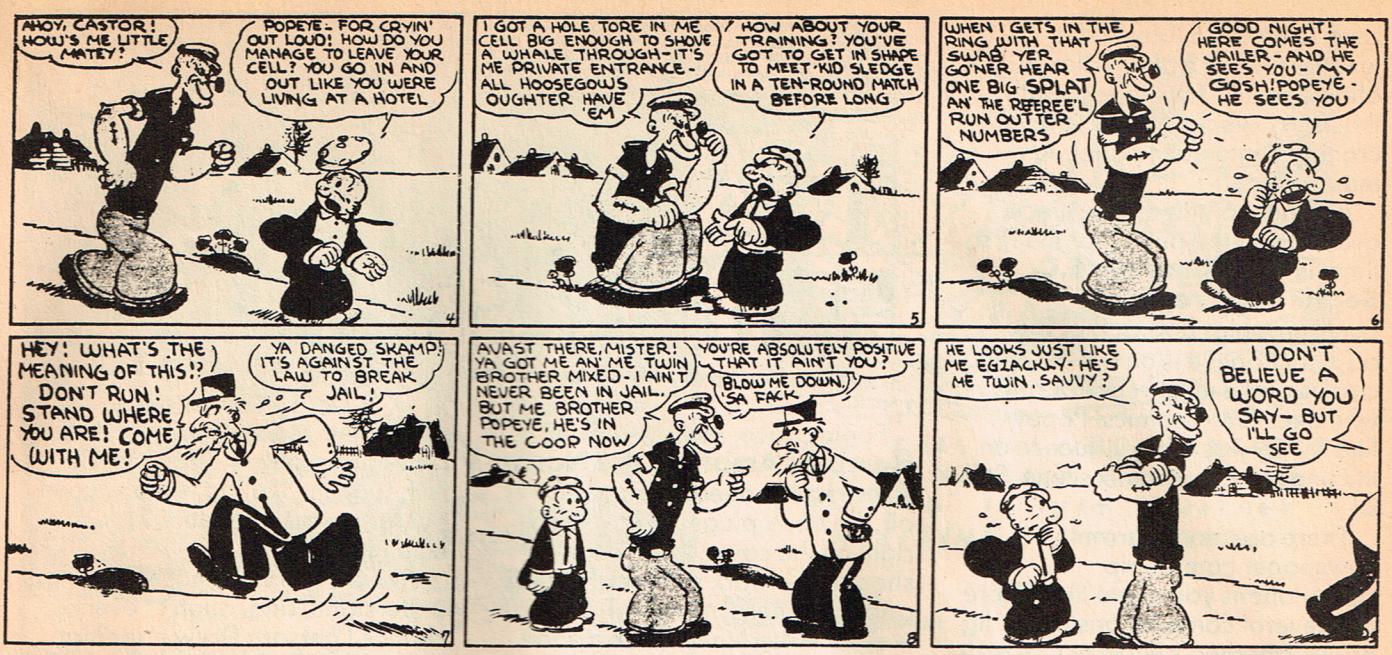
NAME _____

ADDRESS _____

CITY _____

STATE **ZIP**

Send coupon or a facsimile.



The ever-popular "Popeye," by E.C. Segar, from *The Complete Segar Popeye*.

funny books

BY JOHN HOLMSTROM



A very funny "Calvin and Hobbes" by Bill Watterson.

The hottest things in the publishing world right now are "funny books," that is, hard- and paperback compilations of comic strips. Partly because of the proliferation of specialty comic book stores, and partly because a whole generation of kids grew up in the sixties and seventies and kept reading comics as adults, comic books are selling like hotcakes! Here's a look at a few of them.

Of special interest to many HIGH TIMES readers is **A History of Underground Comics**, from Ronin Press. Originally published in 1974, the book caused a furor in the U.G. comix scene, which resulted in the author, Mark James Estren, getting punched out by an angry cartoonist. Maybe that guy was onto something—Estren is now a yuppie, in charge of the Financial News Network ("to him, money news makes the world go around", says his press kit). Although the book is an interesting read and there's lots of great comics reprinted in it, at the new $17.95 cover price you might be better off buying the original underground comic books if you can find them.

If you want to spend big bucks on comics reprints, go for the gigantic **MAD** reprints. **MAD** is the original underground comic book, and was probably the single biggest influence on the counterculture of the sixties. Each book has six complete **MAD**s inside, and eventually every single wonderful

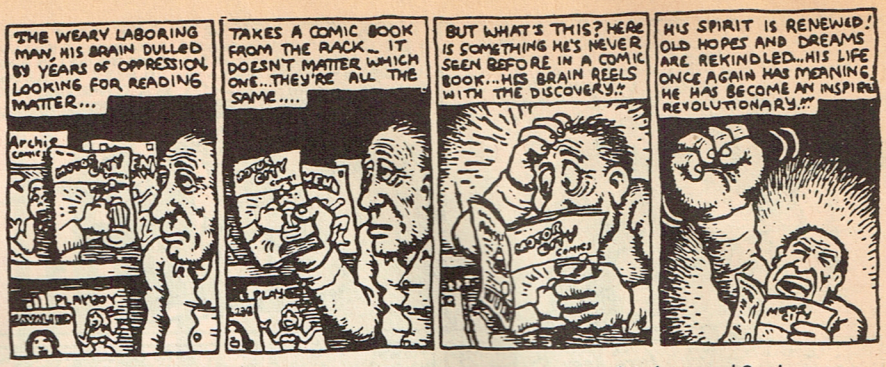
issue will be available. The luxurious 9" × 12", full-color format allows comics fans to enjoy all those tiny, wacky details lovingly crammed into each panel. A masterpiece!

Another comics masterpiece, available to the public for the first time, is **The Complete E.C. Segar Popeye**, from Fantagraphics Books, Inc. The original Popeye is an eye-popping classic and a must-read for anyone who likes funny comics. Popeye, like MAD, was a big influence on the underground comix scene. Still is!

There are many current newspaper comic strip compilations you might like. There are several compilations featuring Berke Breathed's **Bloom County**, as well as Gary Larson's hilarious **The Far Side**. But these are all available at your local bookstore, so let's mention a comics book that needs a plug, okay?



Left: "Speed Kills," by R. Crumb, from *A History of Underground Comics*. Below: a detail from *At Home with Rick Geary*.



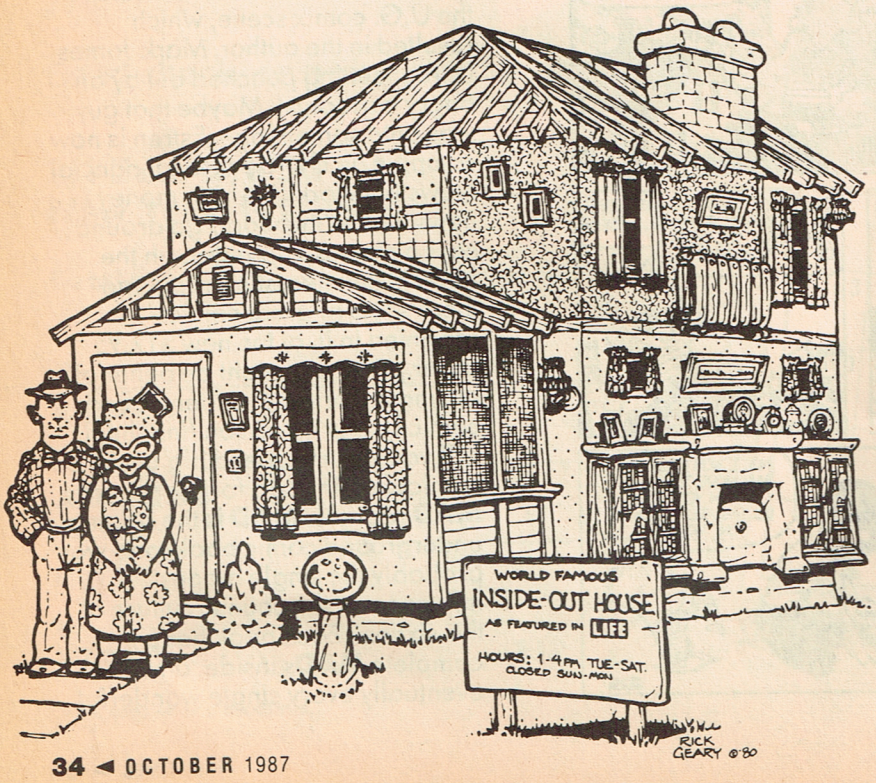
R. Crumb's brilliant "Getting the Message to the People," from *A History of Underground Comics*.

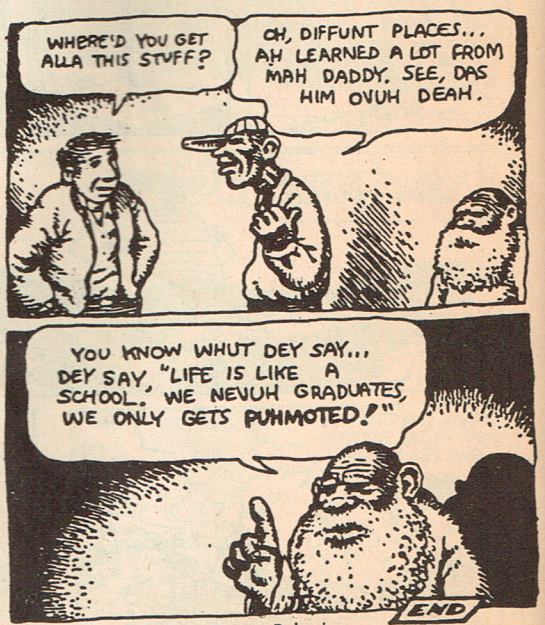
For instance, Mark Marek's **Hercules Amongst the North Americans** needs a plug. After all, the book plugs HIGH TIMES right on the cover. No reason it shouldn't—Mark's **Hercules** strip appeared here in HIGH TIMES, as well as in the *National Lampoon*, on a regular basis a few years back. Although Marek has been accused of blatantly ripping off Gary Panter's drawing style in the same way Gary Larson has been charged with taking too much "inspiration" from B. Kliban, **Hercules** can stand on its own merits. Whatever the weaknesses of the drawing, lettering, or layout, **Hercules** is a well-written, imaginative strip. Which is all that counts, isn't it?

Another former *National Lampoon* cartoonist, Rick Geary, also got a book deal. His **At Home with Rick Geary** is now available from Fantagraphics Books, Inc. His stuff is well rendered in a very original style. Although the writing is too spaced out for me to understand, you might enjoy it.

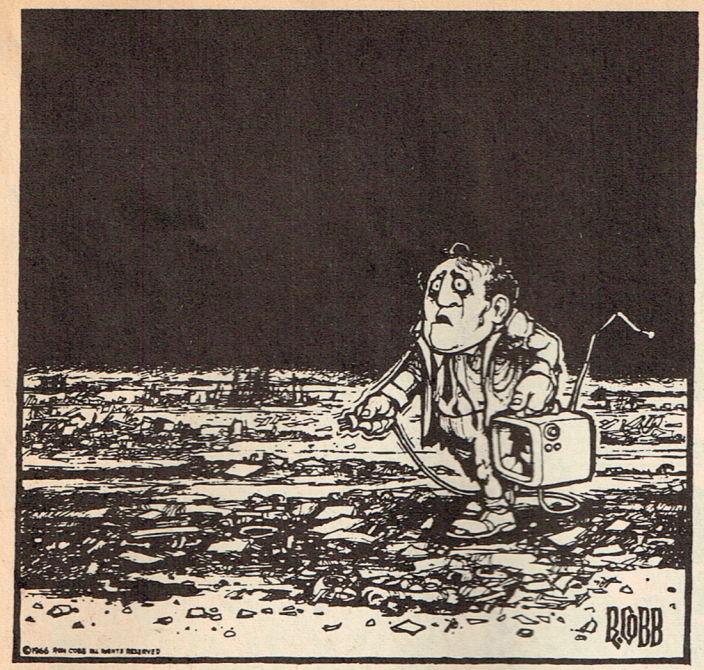
Two cartoonists whose work I do understand, and laugh at every chance I get, are Drew Friedman and Josh Alan Friedman, both of whom have been printed in HIGH TIMES a whole bunch of times. Their **Any Similarity to Persons Living or Dead Is Purely Coincidental**, also published by Fantagraphics Books, Inc. has become one of the success stories in the funny books phenomenon, and a big reason a lot of cartoonists are suddenly getting book deals. Complete in the book is their Joe Franklin epic, which resulted in a $20 million dollar lawsuit. Hey! Anything that funny deserves your immediate attention, right?

Then there's the inimitable Harvey Pekar, *Late Night with David Letterman*'s latest mascot.





Heavy philosophy from Harvey Pekar's *More American Splendor*, drawn by Crumb.



Ron Cobb's biting social comment, from *A History of Underground Comics.*



Above right: Mark Marek's *Hercules Amongst the North Americans.* **Right: Gahan Wilson's America.**



"What can I say?

You're my kind of talent!"

His first comics compilation, **American Splendor**, was, like the Friedman brothers book, a big success, and inspiration for the funny books phenomenon. Although I don't find his slice-of-life comic strips particularly humorous, many people have informed me that they are. Many of these same people have also informed me that his second collection, **More American Splendor**, is a disappointment. But to me, any book that features the work of R. Crumb is worth checking out, and Crumb has five strips in this book. So check it out!

Another cult figure on the comics circuit is Mad Peck. Dolphin Books recently published a 20-year retrospective by the Mad Peck, and aficionados of his work will be pleased. The book is certainly a cultural artifact, although I'm not a big fan of Mad Peck, Milton Knight (whose "Zoë" comic premieres in this issue) informs me that the Mad Peck is, in his words, "wonderful!"

Absolutely the worst book I've seen fall under the "funny" designation is **The Whole Enchilada** by Nicole Hollander, from St. Martin's Press. The writing stinks, the craftsmanship is worse,

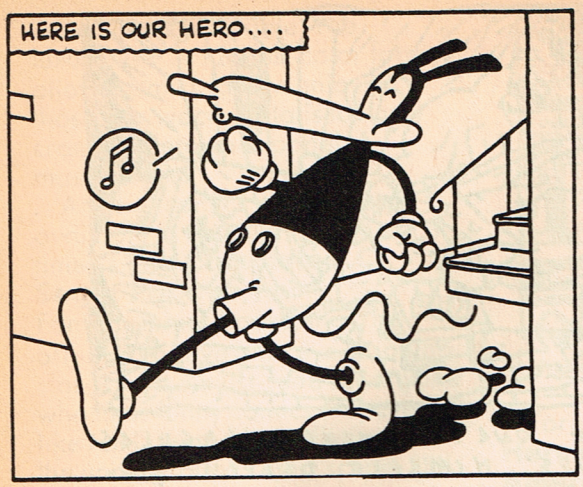




A little cheesecake from Mad Peck Studios.



Josh and Drew Friedman's Joe Franklin parody from *Any Similarity to Persons Living or Dead Is Purely Coincidental.*

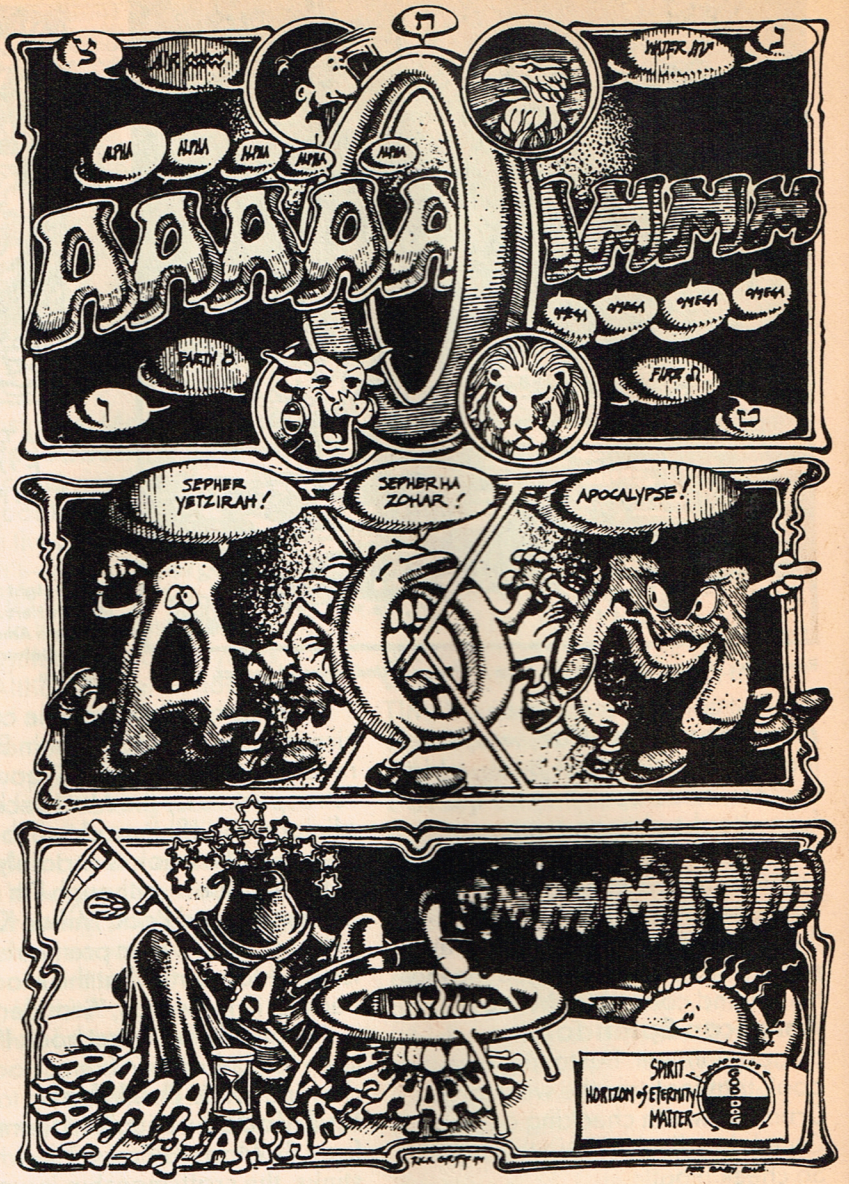


Massimo Mattioli's sicko *SUPERWEST Comics*.

and the lettering and layout are so sloppy that the book is almost unreadable. I can't even find anyone who'll say something nice about it either! For instance, here's a typical "joke." Sylvia's daughter—"Ma, do you think I can be a feminist and still like men?" Sylvia—"Sure, just like you can be a vegetarian and still like fried chicken." Hilarious, huh?

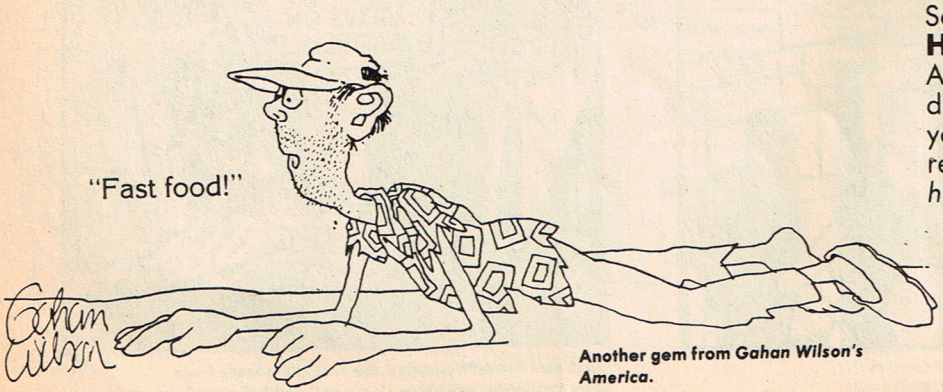
Another book I didn't laugh at is **SUPERWEST Comics**, by Massimo Mattioli, from Catalan Communications. I can't figure out why—the drawings are funny, and there are funny ideas scattered here and there—but I dunno, I didn't laugh. Maybe you will. But I like his **Squeak the Mouse** book—really SICKO STUFF!

I laugh out loud any time I read Gahan Wilson's cartoons—he's the ginchiest! Although his latest collection of gags, **Gahan Wilson's America**, doesn't have any baseball cartoons (for which Gahan profusely apologizes), it's a truly funny book with many examples of what makes this country such a wonderful place to live.



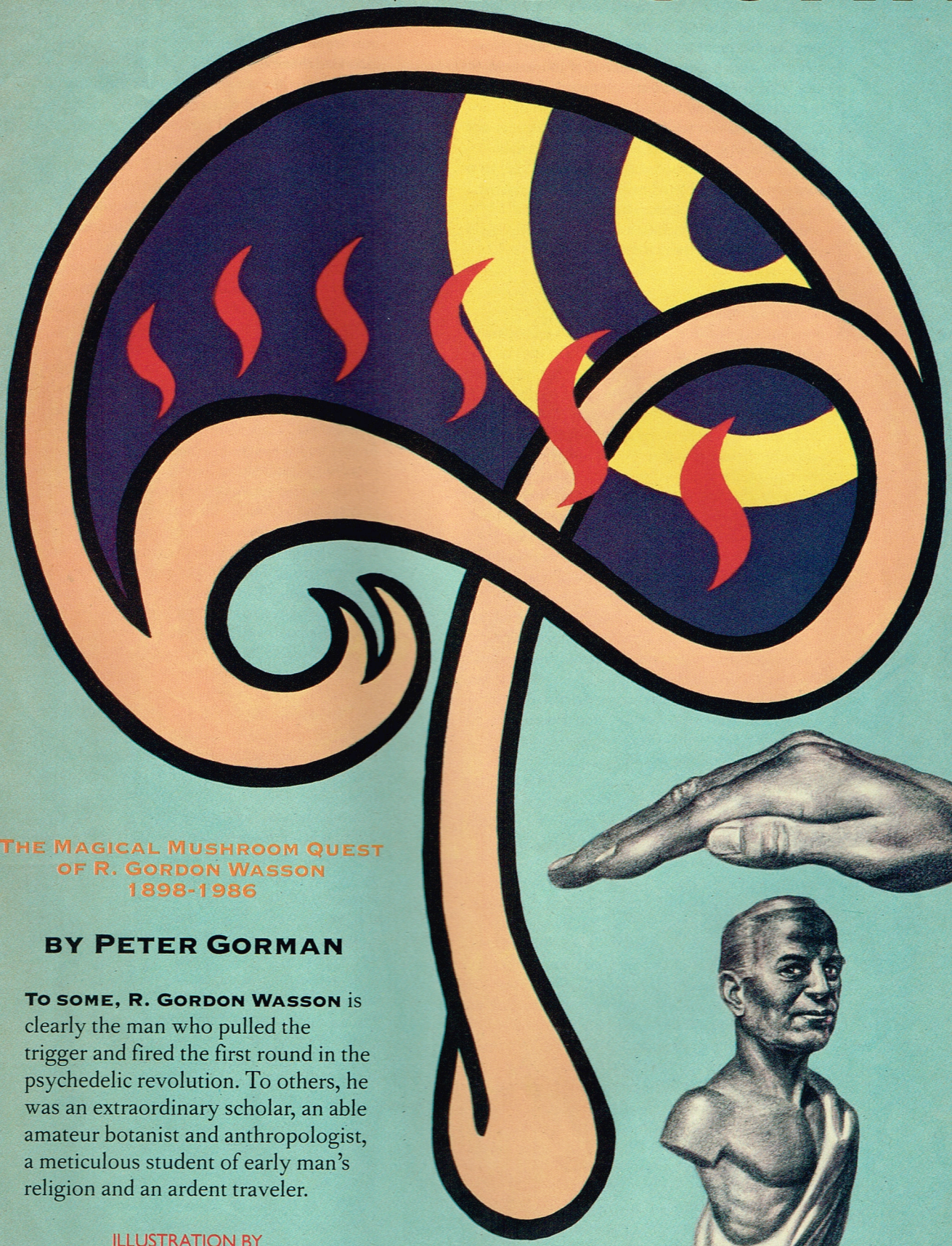
One of Rick Griffin's bizarre hallucinations from **ZAP Comics #3**, reprinted in *A History of Underground Comics*.

I saved the best for last. My favorite newspaper comic strip is currently **Calvin and Hobbes**. I don't ordinarily like kid comics. I hate Peanuts, U.S. Acres, Garfield, the whole lot of 'em. But **Calvin and Hobbes** is the funniest, best-drawn comic strip I've seen in the last twenty years. It even compares favorably to underground comix! So check out the **Calvin and Hobbes** book, published by Andrew, McMeel & Parker. If you don't laugh at that, well, then you just wasted ten minutes reading this article, didn't you? *Ha ha ha ha!* ●



Another gem from *Gahan Wilson's America*.

Sage of Soma



The Magical Mushroom Quest of R. Gordon Wasson 1898-1986

BY PETER GORMAN

To some, R. Gordon Wasson is clearly the man who pulled the trigger and fired the first round in the psychedelic revolution. To others, he was an extraordinary scholar, an able amateur botanist and anthropologist, a meticulous student of early man's religion and an ardent traveler.

ILLUSTRATION BY
GREGORY HERGERT



JOHN ALLEN

R. GORDON WASSON was born in Great Falls, Montana, in 1898, the son of a minister. He spent his early years in Newark, New Jersey, attended Columbia School of Journalism, taught there for a short time afterward, then moved to England to study at the London School of Economics. It was while in London that he met and fell in love with Valentina Pavlovna, a Russian emigré studying to become a doctor. In 1926, after Pavlovna had completed her studies, they married and moved to New York. There she began a pediatric practice which flourished; he wrote on economics for the **NEW YORK HERALD TRIBUNE.**

Some months later, while on a delayed honeymoon, Gordon Wasson first came in contact with wild mushrooms. As he put it: "In the afternoon of the first day in the Catskills, we went strolling.... Suddenly my bride spied wild mushrooms in the forest, and racing over the carpet of dried leaves in the woods, she knelt in poses of adoration before first one cluster and then another of these growths. She was overcome with joy at seeing the same kinds of mushrooms in the United States that she had seen in Russia." That night she added the mushrooms to everything she cooked; he refused to eat, sure that all wild fungi were deadly poisonous and that he would be a widower in the morning.

Not the kind of auspicious beginning one might expect from a man who would become the world's foremost authority on hallucinogenic mushrooms. Wasson's wife had grown up gathering mushrooms for the table; he had been taught they were poisonous. The cultural opposition caused them to begin a lifelong search for the origins of those opposing viewpoints.

By 1928, Wasson had left journalism for banking, working as an investment banker for **MORGAN GUARANTY TRUST**. Meanwhile, during her spare time, Valentina began collecting material on mushrooms in myth and literature. They began to vacation in areas where people were known for their love of mushrooms: Friesland, Lapland, Provence, and the Basque country. Friends in these places sent them material on mushrooms, and friends of friends did the same. Wasson soon had to coin a term for their field of inquiry. He named it *ethnomycology*, the study of the mushroom's place in the culture of man. The material eventually grew so voluminous the Wassons decided to publish a study. While preparing the book, they realized how many religious references were involved. Suddenly Wasson and his wife had a simultaneous thought: Was it not probable that our ancestors worshipped a mushroom? Wouldn't this explain the aura in which all fungi seem to be bathed? But what kind of mushroom was worshipped, and why?

This was the turning point in their work. They found themselves studying the mushroom not only for its anecdotal place in cultural history, but also for its probable religious significance. The first key to this riddle was the discovery of six extant primitive peoples in Siberia who still used hallucinogenic mushrooms in shamanistic rites. Further study indicated that even in cultures where mushrooms were taboo, they carried a supernatural aura. Greek literature was filled with references to mushrooms as "food of the gods." Prohibitions against mortals eating them were severe.

The Wassons became obsessed with their work. The concept of drugs and religion was not entirely new: Mescalin had recently been synthesized from peyote buttons and were the subject of study among Indians of the Southwest and Northern Mexico, and Philippe de Felice had written that the connection between religion and the taking of drugs was "...a kind of phenomenon which cannot be disregarded by anyone who is trying to discover what religion is, and what are the deep needs it must satisfy." Wasson's father himself had written a book decrying Prohibition, citing alcohol use in religious service, but the trail the Wassons were on was broader than any of these. They were looking for a specific fungus which apparently had been used in disparate parts of the globe from Siberia to India, including China, and perhaps even in MesoAmerica.

A second turning point in the Wassons' study came on September 19, 1952. They received two letters that day, both of them evidence they were on the right track. The first was a drawing of a pre-conquest Guatamalan stone carving representing a mushroom; the second was a letter from the poet Robert Graves calling their attention to an article by Richard Evans Schultes, the famed ethnobotanist. In it, Schultes presented evidence of a mushroom cult in Mexico; he had even brought back specimens of the supposedly magic mushroom for study at the Harvard Botanical Museum. Moreover, Schultes had claimed to have witnessed a shamanistic ritual in which they were used, though he made no claim to having ingested the mushrooms himself.

Since it ran counter to the prevailing thought of the day, Schultes' paper, and even his specimens, had not raised many eyebrows at Harvard. Upon seeing his specimens, one of the botanists there remarked, "Dried mushrooms look like dried peyote tops, so they're one and the same thing."

In 1953 the Wassons made their first expedition to a town mentioned by Schultes, Huautla de Jiminez, in search of the magic mushroom cult. They were accompanied by anthropologist Roberto Weitlaner, the man who had made the first claims about the magic mushrooms and whose work had inspired Schultes. (**SEE "WASSON'S FIRST VOYAGE," P. 40.**)

Mushrooms opened up new worlds and new horizons. Wasson became convinced they were responsible for planting the seed of religion in primitive man. They also provided him with his first genuine awareness of ecstacy. He and his wife—who had extraordinary visions of her own when she tried the mushrooms—spent as much of the following year in Mexico as possible.



IN 1954 ALDOUS HUXLEY had published *The Doors of Perception*, an essay detailing the effects of his first encounter with mescaline. But while Huxley loaded the gun, it was Wasson who pulled the trigger. On **FEBRUARY 13, 1957**, *Life* magazine published a 15-page article detailing, experientially, Wasson's first experiences with the shamaness Maria Sabina. The fantastic style of the text, coupled with Richardson's extraordinary photographs ushered in, with one fell swoop, the age of psychedelics.

Wasson described the ritual in such amazing terms that years later the leaders of the psychedelic revolution would all nod their heads to him: He inspired them, told them the ideal conditions under which hallucinogens were to be taken, what they could expect, and how to have a good and beneficial trip. Timothy Leary dedicates a chapter in his book *High Priest* to Wasson. Others, from Owsley to Sandoz to Wolfe, acknowlege the *Life* article as having burned into their consciousness the desire to know what Wasson had experienced.

For Wasson, it was never his intent that anyone should follow him to Maria Sabina's home in Huautla de Jiminez. In the *Life* article he never mentioned a town, and he changed Sabina's name to Eva Mendez in an effort to protect her privacy. But Wasson was well-known, stylishly flamboyant, and already had been the subject of magazine articles. Other writers who knew the real location of his *velada* were not as thoughtful. Maria Sabina and her little town were soon descended upon by hordes of would-be visionaries, curiosity seekers, and even tour guides and their charges.

In a sense, it couldn't have been any other way: Huxley had whetted the appetites of a generation for mind-expanding drugs; Wasson excited the imaginations of those who excited us. His descriptions of tripping in a deep Mexican night with a powerful modern-day *curandera* must have boggled the mind in a day when hallucinogens were nearly unknown. Some writers have gone as far as to say that had he not published his story in *Life*, there would never have been a psychedelic revolution (the term psychedelic was one Wasson refused to use, coining instead *entheogen* for plants which produce a divine experience). For better or worse, the world was changed forever.

Unfortunately, the change was not for the better. Maria Sabina herself is quoted in a biography as saying: "When we Mazatecs speak of the *veladas* we do so in a low voice, and, so as not to pronounce the mushroom's name in Mazatec, we call them 'little things' and 'little children'... From the moment when the strangers arrived the holy children lost their purity. They lost their strength... before Wasson I felt that the Holy Children elevated me. I no longer feel so."

Wasson was crushed when he realized how she felt and how disturbed the Mazatec rituals had become. Shamans and *curanderas* began to crop up all over Mexico offering their services to all, regardless of the intent of the seekers. For Wasson, this was a profaning of a sacred ritual of enlightment. Schultes says that Wasson's intent was "purely scientific and sociological. His interest was in the effect of these plants and the use of them in religious and magical ceremonies, ancient and modern. Secondly, he wished to see if they might not lead to compounds that could be used in our medicine." But Wasson would later defend himself by saying, "What else could we have done? Had we refrained from presenting to the world the facts as we knew then, a novel and major chapter in Early Man's cultural history would perhaps have vanished forever." It was, he felt, just an accident that he had arrived in Mexico during the same decade as the highways, airports, and telephones.



GORDON WASSON AND VALENTINA continued their search for the roots of religion in Guatamala, New Guinea, and Borneo for the following two years, until Valentina's death. Wasson was devastated by the loss, but perhaps her death drove him to work even harder than before. In 1963 he quit his position at the Morgan Guaranty and Trust and set off for the Orient. With a translator, Wendy Doniger, to whom he credits coauthorship of *SOMA: Divine Mushroom of Immortality*, Wasson began a painstakingly slow dissection of the *Rig Veda*, the oldest religious text ever discovered, hoping to prove that the previously unidentified "divine plant" of the text was actually the hallucinogenic mushroom *Amanita muscaria*, also known as *Soma*. Not only did he eventually prove his point to the scholastic world, he went further and traced its influence from parts of Russia through India, the Middle East, and into China and Europe.

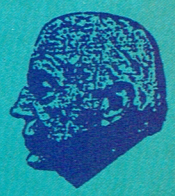
Following his return from the Orient, Wasson turned his attention to the study of the ancient Greek Rites of Elusis. With the help of Carl Rock and Albert Hofmann he proposed and proved that the ancient rites incorporated ergot, a hallucinogenic fungus growing on barley, as integral to the ceremony. The implications of this line of thought were inspiring: If true, it is not unlikely that Aristotle, Plato, Socrates, and Sophocles had experienced hallucinogenic inspiration similar to that of LSD.

In his later years Wasson traveled, lectured, and wrote further on the ethnomycology of magic mushrooms. He died on December 23, 1986, while visiting his daughter in Binghamton, New York, shortly after finishing *Persiphone's Quest*, a consolidation of theories on psychedelic involvement in early religion.

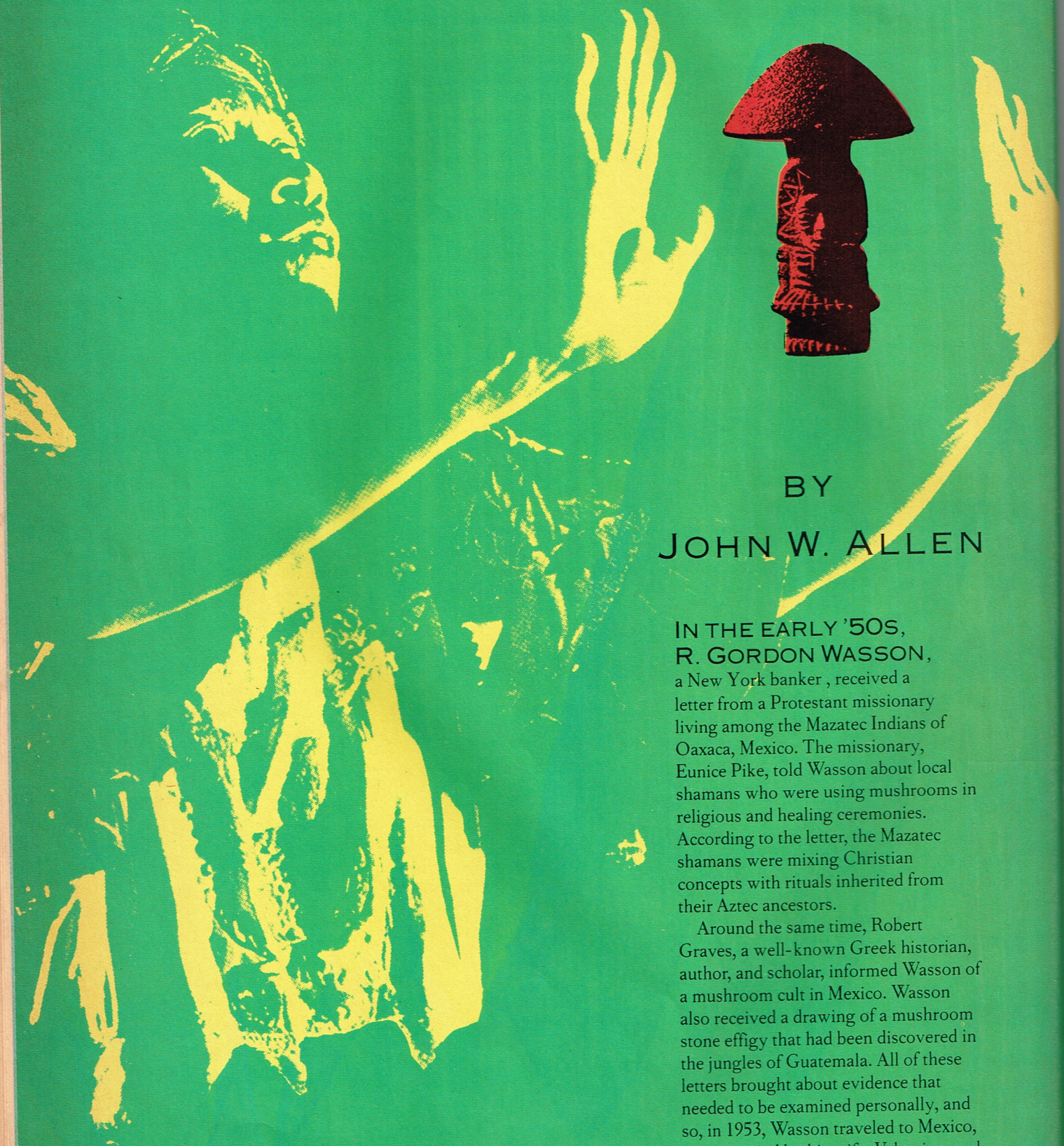
He is survived by his daughter and son.

Wasson was cremated in Washington, D.C., and his ashes were interred there. Considering the scope of his life's work, it is remarkable how unnoticed his death has gone in the major media.

Thomas Riedlinger is presently compiling a book of essays by associates, students, and collaborators of R. Gordon Wasson in memory of him. No publishing date has yet been set.



WASSON'S FIRST VOYAGE



Maria Sabina

BY

JOHN W. ALLEN

IN THE EARLY '50S, R. GORDON WASSON, a New York banker , received a letter from a Protestant missionary living among the Mazatec Indians of Oaxaca, Mexico. The missionary, Eunice Pike, told Wasson about local shamans who were using mushrooms in religious and healing ceremonies. According to the letter, the Mazatec shamans were mixing Christian concepts with rituals inherited from their Aztec ancestors.

Around the same time, Robert Graves, a well-known Greek historian, author, and scholar, informed Wasson of a mushroom cult in Mexico. Wasson also received a drawing of a mushroom stone effigy that had been discovered in the jungles of Guatemala. All of these letters brought about evidence that needed to be examined personally, and so, in 1953, Wasson traveled to Mexico, accompanied by his wife, Valentina, and Roberto Weitlaner.

After arriving in Mazatec country and inquiring about the Sacred Mushrooms of the Aztecs, they finally succeeded in attending an all-night velada (as the ceremony is called by the Mazatec shamans,or curanderas,who officiate and perform them). This first ceremony was conducted under the guidance of a Mazatec Shaman named Don Aurelio. Wasson observed the procedures and took notes of what transpired, but was not allowed to join in or partake of the mushrooms. However, he was very ecstatic over the performance, and felt no regrets for not being able to fully participate.

Wasson made two more exploratory excursions into Mexico during the next two years. It was on his third trip to Oaxaca, and his second into Huautla, that he and his photographer-friend Allan Richardson, arrived on the morning of June 29, 1955, in the tiny village hamlet of Huautla de Jimenez that lies perched high up in the Sierra Mazatec mountains of Southern Mexico. Wasson and Richardson had no idea that before the day ended, they would become the first foreigners to partake of the sacred mushrooms they had been seeking for so long.

Once Wasson and Richardson found lodgings, they set out on separate searches, asking everyone they came across for help in their mushroom hunt. After several hours of fruitless questioning of the natives, Wasson decided to find a government official and ask who might be willing to discuss the mushroom secrets with him. So off he went to the local *Municipio* (city hall), even though he was aware that many government officials were dishonest and corrupt, especially when it came to matters involving gringo white foreigners. But Wasson decided he didn't have much to lose by approaching the officials.

Eventually, Wasson met a man working in the office of the presidente who was the town sindico. The sindico is the number two man in the village, and since the presidente was away on business, the sindico was officially acting presidente. His name was Cayetano Garcia Mendoza. After exchanging introductions and greetings with Cayetano, Wasson was polite in his humble manner and discussed several topics such as the weather, maize crop prices, the problems with the drinking water, and the current prices of coffee, etc. It wasn't long before Wasson found himself leaning over the counter towards Cayetano and whispering the Mazatec name for the sacred mushroom.

All of a sudden, Cayetano appeared bewildered and much astounded. How could a foreigner have knowledge of such a well-kept secret that very few Mazatec people would mention casually? But in answer to Wasson's question, Cayetano replied that "nothing could be easier," and then he asked Wasson "to come to my humble adobe after four o'clock, when I'm done and finished with my day's work, and I would be ever so glad to help you with your unusual request."

...he said, "Gordon, I'm seeing things," to which Wasson gave the comforting reply that he was too...

Later that afternoon, Wasson and his friend Richardson, arrived at Cayetano's home. They were led down the road to a spot not more than a hundred feet from Cayetano's house, where they found an abundance of mushrooms fruiting out of sugar cane mulch. While Richardson began photographing the mushrooms, Wasson picked several and placed them gently into a pasteboard box which he had brought along for this occasion.

In the meantime, while Wasson was picking mushrooms, Cayetano proceeded to the home of his friend, Dona Maria Sabina.

Cayetano asked Sabina if he could bring the strangers to her home so that she might teach them the true knowledge of the mushrooms. Dona Maria replied, "If you want to, I can't say no."

(Years later, Maria Sabina stated she felt compelled to accept Wasson's visits because of Cayetano's official position, and she assumed Cayetano's visit to her humble dwelling on that hot summer day was one of official business. Many years later, in 1971, Wasson read an interview with Maria Sabina in a European magazine that said when Cayetano had requested her aid in helping the foreigners, she did so because she felt she had no choice. She also declared that when she was asked to meet with them "she should have said no.")

By late afternoon, Wasson, Richardson, and their friends Emilio and Generao, had finished picking the mushroom samples and returned to Cayetano's home just as Cayetano was returning from Maria Sabina's.

Cayetano requested his son Emilio go along to Maria Sabina's home and act as an interpreter so the strangers would understand what was happening during the ceremony. At Maria Sabina's, Wasson opened his pasteboard box and exposed the mushrooms he had just picked. Maria Sabina cried out in joy and held them in her fragile hands, while talking to them in her own language. Arrangements were soon made for a velada later in the evening.

On the evening of June 29, 1955, Wasson and Richardson became the first white people to consume the sacred mushrooms of the ancient Aztec people, in a ceremony held under the supervision of Dona Maria Sabina, Curandera Supreme, who performed for them and with them, a vigil which was conducted by her at the home of her friend Cayetano.

Wasson later wrote: "We all ate our mushrooms facing the wall where the small altar table stood. We ate them in silence, except for Cayetano's father, don Emilio, who was consulting the mushrooms about his infected left forearm. He would jerk his head violently with each mushroom that he swallowed, and utter a smacking noise, as though in acknowledgment of their divine potency. I was seated in the corner of the room on the left of the altar. The Señora asked me to move because the Word would come down there...

"I joined Allan immediately behind the Señora. We took about a half hour to eat our six pairs of mushrooms. By eleven o'clock we had all finished our

continued on page 68

PHOTO COURTESY ALFRED VAN DER MARCK EDITIONS

SHROOMS vs POT

A Grower's Viewpoint



FACE IT, IF MUSHROOMS AND OTHER MOLDS SPROUT WITH NO EFFORT ON YOUR PART ON TILES IN YOUR BATHROOM, VINTAGE FOOD, AND EVEN COW PIES, HOW TOUGH CAN IT BE TO **CONSCIOUSLY GROW** THEM? TRYING TO RELATE TO FUNGUS WITH PLANT RULES IS LIKE TRYING TO SMOKE A HIT OF ACID. BUT ONCE YOU GET INTO THEIR LITTLE CAP TRIP, IT'S REMARKABLY SIMPLE. A FEW POINTERS...



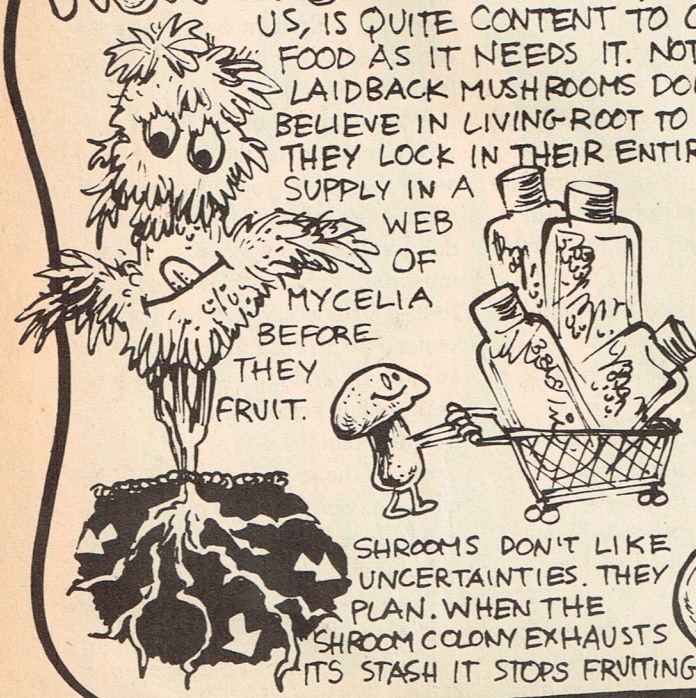


by Kyle Ross

art by Hank Ford '87

Nutrients

OUR FAVORITE PLANT, LIKE US, IS QUITE CONTENT TO GET FOOD AS IT NEEDS IT. NOT BEING LAIDBACK MUSHROOMS DON'T BELIEVE IN LIVING-ROOT TO LEAF THEY LOCK IN THEIR ENTIRE NUTRIENT SUPPLY IN A WEB OF MYCELIA BEFORE THEY FRUIT.

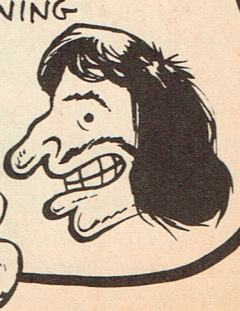


SHROOMS DON'T LIKE UNCERTAINTIES. THEY PLAN. WHEN THE SHROOM COLONY EXHAUSTS ITS STASH IT STOPS FRUITING

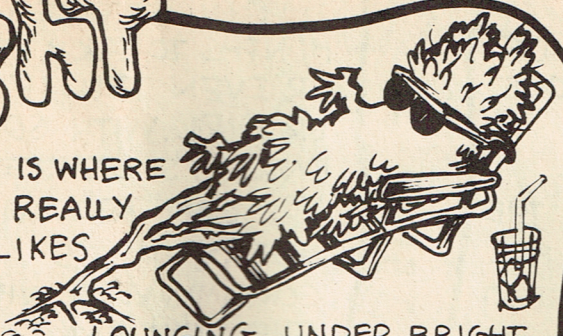


ALTHOUGH PLANTS, LIKE US, HAVE SPECIFIC TIMES WHEN THEY CONCENTRATE ON CERTAIN THINGS ROOTS, LEAVES, OR FLOWERS THEY'RE NOT ADVERSE TO PRODUCING A BIT MORE FOOD IN THEIR LEAVES WHILE THEY FLOWER, OR TO PRODUCING A FEW MORE ROOTS IF NEEDED. THEY EVEN ROOT AND LEAF AT THE SAME TIME. MUSHROOMS ARE VERY SINGLE MINDED. THEY ARE EITHER GROWING MYCELIA, SETTING PRIMORDIA OR FRUITING.

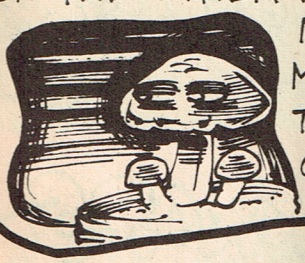
Growing



LIGHT

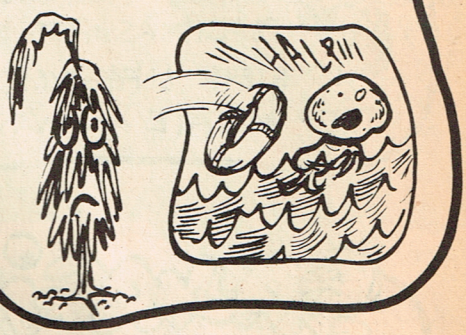


THIS IS WHERE LIFESTYLES REALLY CLASH. POT LIKES TO SPEND ITS DAYS LOUNGING UNDER BRIGHT LIGHT AND A STEADY BREEZE. SHROOMS ON THE OTHER HAND ARE TRULY MYSTIC. AFTER SPENDING MOST OF THEIR LIFE IN TOTAL DARKNESS, THEY ONLY NEED ENUFF LIGHT TO SEE WHERE THEY ARE.



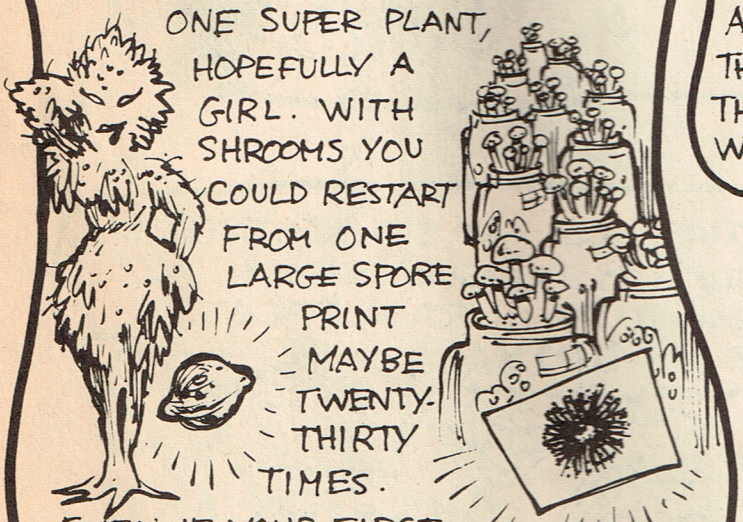
H2O

TOTALLY DIFFERENT, POT SHRIVELS AND DIES FROM UNDERWATERING. SHROOMS DIE OR DROWN WHEN THEY ARE OVER-WATERED.



GERMINATING

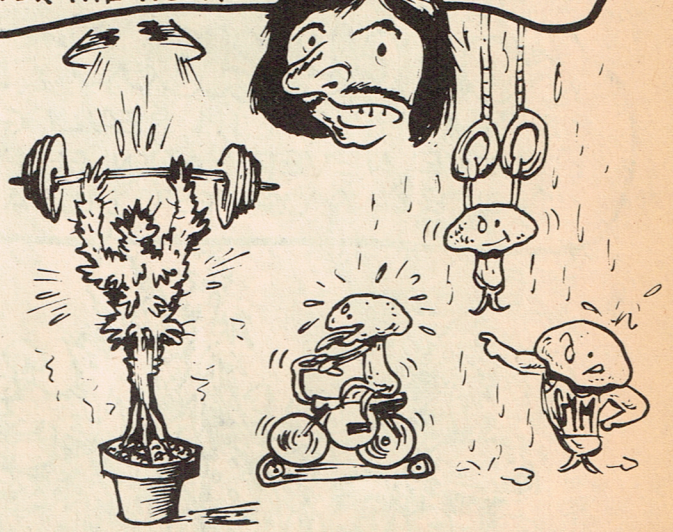
THE MOST YOU CAN HOPE FOR FROM ONE SUPER SEED IS ONE SUPER PLANT, HOPEFULLY A GIRL. WITH SHROOMS YOU COULD RESTART FROM ONE LARGE SPORE PRINT MAYBE TWENTY-THIRTY TIMES.



EVEN IF YOUR FIRST SHROOM IS ONLY SPECIMEN SIZE, CHANCES ARE YOU CAN GET A BUZZ OFF IT, AND A NEW SPORE PRINT.

HUMIDITY

POT IS TOLERANT ON THIS ONE - ALTHOUGH OUTSIDE OF 40 - 50% HUMIDITY YOU MIGHT RUN INTO TROUBLE WITH INSECTS, MOLD, AND AHEM - MUSHROOMS! SHROOMS *LIKE* WATER, THEY JUST DON'T LIKE *TO BE WATERED*. THEY PREFER 80 - 100% HUMIDITY. WATER THE ROOM.



IT'S LIKE RUNNING A HEALTH CLUB FOR PLANTS!

CLONING

YOU CAN TAKE CUTTINGS OF OUR FAVORITE PLANT, THEREFORE BEING ABLE TO HAVE YOUR PLANT AND SMOKE IT TOO.



SHROOMS WORK MUCH THE SAME WAY EXCEPT FOR ONE DIFFERENCE - JUST AS THE HIGH ISN'T AS PLACID AS POT - NEITHER IS THEIR LIFESTYLE. THEY MUTATE ANYWAY.



TIME

IT MIGHT TAKE UP TO THREE MONTHS TO FUCK UP A PLANT OR EVEN TELL IF IT'S A BOY OR GIRL. WITH SOME SHROOMS, ONCE IT'S STARTED (CULTURE), YOU CAN TELL WITHIN WEEKS IF IT'S CONTAMINATED. WITH THE NEXT BATCH READY, SCREWING UP IS FAST AND CHEAP.



SALVAGING YOUR ERRORS

WHEN YOU SCREW UP POT, YOU SMOKE THE LEAVES. IT AIN'T PRIMO, BUT IT'S SOMETHING - ALMOST. MUSHROOMS ARE THE SAME. IF THE MYCELIA WON'T FRUIT YOU CAN ALWAYS EAT IT. IT DOESN'T TASTE BAD. IT'S THE AGAR MEDIUM IT'S ATTACHED TO THAT MAKES YOU GAG.



CONCLUSION

I **LOVE** GRASS AND I'M NEVER GIVING THAT UP. BUT I'M REALLY GETTING TO TREASURE SHROOMS ALSO. IF YOU'VE NEVER EATEN 'EM FRESH, YOU'RE IN FOR A TREAT! CHOICE? NO CONTEST, I'LL TAKE EM **BOTH!!!**



LITTLE FLOWERS OF THE GODS

BY RICHARD EVANS SCHULTES AND ALBERT HOFMANN

"There is a world beyond ours, a world that is far away, nearby and invisible. And there is where God lives, where the dead live, the spirits and the saints, a world where everything has already happened and everything is known. That world talks. It has a language of its own. I report what it says. The sacred mushroom takes me by the hand and brings me to the world where everything is known. It is they, the sacred mushrooms, that speak in a way I can understand. I ask them and they answer me. When I return from the trip that I have taken with them, I tell what they have told me and what they have shown me."

CONTINUED OVER



PHOTOGRAPHY BY DR. W. RAUH







Thus does the famous Mazatec shaman, Maria Sabina, reverently describe the god-given powers of the intoxicating mushrooms that she uses in her ceremony that has come down from ages past.

Few plants of the gods have ever been held in greater reverence than the sacred mushrooms of Mexico. So hallowed were these fungi that the Aztecs called them Teonanacatl ("divine flesh") and used them only in the most holy of their ceremonies. Even though, as fungi, mushrooms do not blossom, the Atztecs referred to them as "flowers," and the Indians who still use them in religious rituals have endearing terms for them, such as "little flower." When the Spaniards conquered Mexico, they were aghast to find the natives worshipping their deities with the help of inebriating plants: Peyotl, Ololiuqui, Teonanacatl. The mushrooms were especially offensive to the European ecclesiastical authorities, and they set out to eradicate their use in religious practices.

"They possessed another method of intoxication, which sharpened their cruelty; for if they used certain small toadstools... they would see a thousand visions and especially snakes... They called these mushrooms in their language *teunamacatlth*, which means 'God's flesh,' or 'of the Devil,' whom they worshipped, and in this wise with that bitter victual by their cruel God were they houseled."

In 1656, a guide for missionaries argued against Indian idolatries, including mushroom ingestion, and recommended their extirpation. Not only do reports condemn Teonanacatl, but actual illustrations denounce it. One depicts the devil enticing an Indian to eat the fungus; another has the devil performing a dance upon a mushroom.

"But before explaining this [idolatry]," one of the clerics said, "I wish to explain the nature of the said mushrooms [which] were small and yellowish, and to collect them the priests and old men, appointed as ministers for these impostures, went to the hills and remained almost the whole night in sermonizing and in superstitious praying. At dawn, when a certain little breeze which they know begins to blow, they would gather them, attributing to them diety. When they are eaten or drunk, they intoxicate, depriving those who partake of them of their senses and making them believe a thousand absurdities."

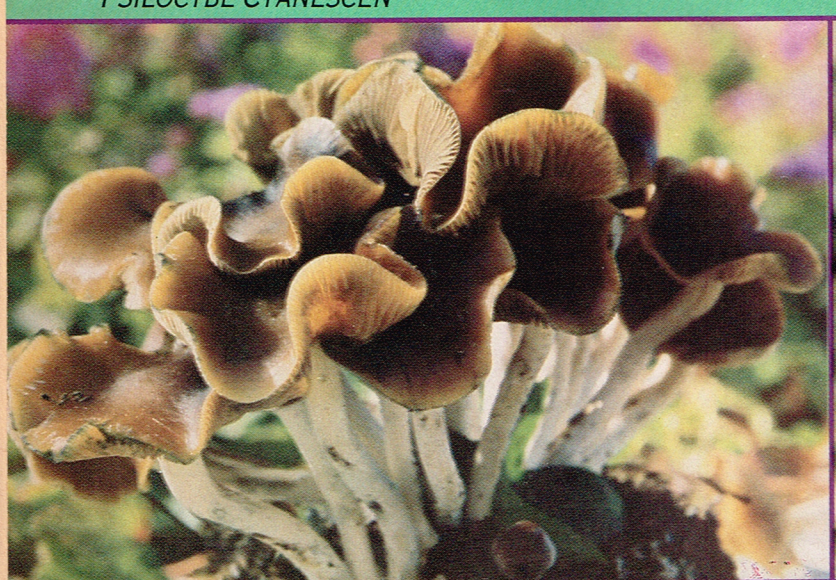
Dr. Francisco Hernandez, personal physician to the king of Spain, wrote that three kinds of narcotic mushrooms were worshipped. After describing a lethal species, he stated that "others, when eaten, cause not death but madness that on occasion is lasting, of which the symptom is a kind of uncontrolled laughter. Usually called *teyhuintli*, these are deep yellow, acrid, and of a not displeasing freshness. There are others again which, without inducing laughter, bring before the eyes all kinds of things, such as wars and the likeness of demons.

"Yet others are there not less desired by princes for their fiestas and banquets, of great price. With night-long vigils are they sought, awesome and terrifying. This kind is tawny and somewhat acrid."

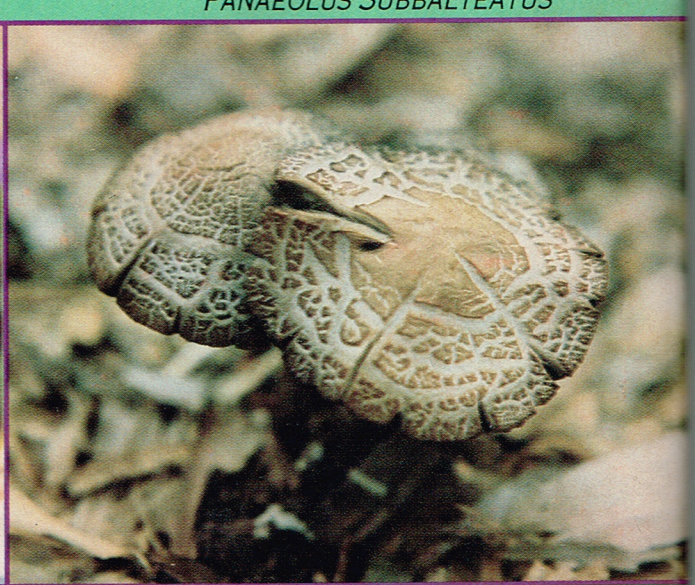
For four centuries nothing was known of the mushroom cult, and it was even doubted that mushrooms were used hallucinogenically in ceremony. The Church fathers had done such a successful job (through persecution) of driving the cult into hiding, that no anthropologist or botanist had ever uncovered the religious use of these mushrooms.

In 1916 an American botanist finally proposed a "solution" to the identification of Teonanacatl, concluding that Teonanacatl and the Peyote were the same drug. Motivated by distrust of the chroniclers and Indians, he intimated that the natives, to protect Peyote, were indicating mushrooms to the authorities. He argued that the dried, brownish, disk-like crown of Peyote resembles a dried mushroom—so remarkably that it will even deceive a mycologist. It was not until the 1930s that an understanding of the role of hallucinogenic mushrooms in Mexico and a knowledge of their botanical identification and chemical composition started to become available. In the late 1930s the first of the

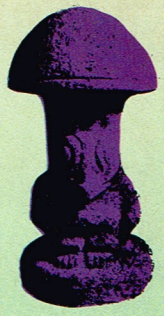
PSILOCYBE CYANESCEN



PANAEOLUS SUBBALTEATUS







many species of sacred Mexican mushrooms were collected and associated with a modern mushroom ceremony. Subsequent fieldwork has resulted in the discovery of some two dozen species. The most important belong to the genus *Psilocybe*, twelve of which have been reported, not including *Stropharia cubensis*, sometimes considered a *Psilocybe*. The most important species appear to be *Psilocybe mexicana* and *P. hoogshagenii*.

These various mushrooms are now known to be employed in divinatory and religious rites among the Mazatec, Chinantec, Chatino, Mije, Zapotec, and Mixtec of Oaxaca; the Nahua and possible the Otomi of Puebla; and the Tarascana of Michoacan. The present center of intensive use of the sacred mushrooms is among the Mazatec.

Mushrooms vary in abundance from year to year and at different seasons. There may be years when one or more species are rare or absent—they vary in their distribution and are not ubiquitous. Furthermore, each shaman has his own favorite mushrooms and may forego others. Maria Sabina, for example, will not use *Stropharia cubensis*. And certain mushrooms are used for specific purposes. This means that each ethnobotanical expedition may not expect to find the same assortment of species employed at one time, even in the same locality and by the same people.

The probability that more species will be found in use is far from remote. Chemical studies have indicated that psilocybin and, to a lesser extent, psilocine are present in many of the species of the several genera associated with the Mexican ceremony. In fact, these compounds have been isolated from many species of *Psilocybe* and other genera in widely separated parts of the world, although the evidence available suggests that only in Mexico are psilocybin-containing mushrooms at present utilized in native ceremonies.

The modern mushroom ceremony is an all-night seance which may include a curing ritual. Chants accompany the main part of the ceremony. The intoxication is characterized by fantastically colored visions in kaleidoscopic movement, by auditory hallucinations, and, the partaker loosing himself in unearthly flights of fancy.

The mushrooms are collected in the forests at the time of the new moon by a virgin girl, then taken to a church to remain briefly on the altar. They are never sold in the marketplace. The Mazatec call the mushrooms Nti-xi-tjo, in which 'Nti is a particle of reverence and endearment; the rest of the name means "that which springs forth." A Mazatec explained this though, poetically: "The little mushroom comes of itself, no one knows whence, like the wind that comes we know not whence nor why."

The shaman chants for hours, with frequent clapping or percussive slaps on the thighs in rhythm with the chant. Maria Sabina's chanting, which has been recorded, studied, and translated, in great part proclaims humbly her qualifications to cure and to interpret divine power through the mushrooms. Excerpts from her chant, all in the beautiful tonal Mazatec language, give an idea of her many "qualifications."

Woman who thunders am I,
woman who
sounds am I.
Spiderwoman am I,
hummingbird woman
am I....
Eagle woman am I, important
eagle
woman am I.
Whirling woman of the
whirlwind am I,
woman of a
sacred, enchanted place am I,
Woman of the shooting stars
am I.

The first non-Indian fully to witness the Mazatec ceremony wrote the following un-

PSILOCYBE STONTZII



PSILOCYBE PELLICULOSA



PHOTOGRAPHS BY JOHN ALLEN

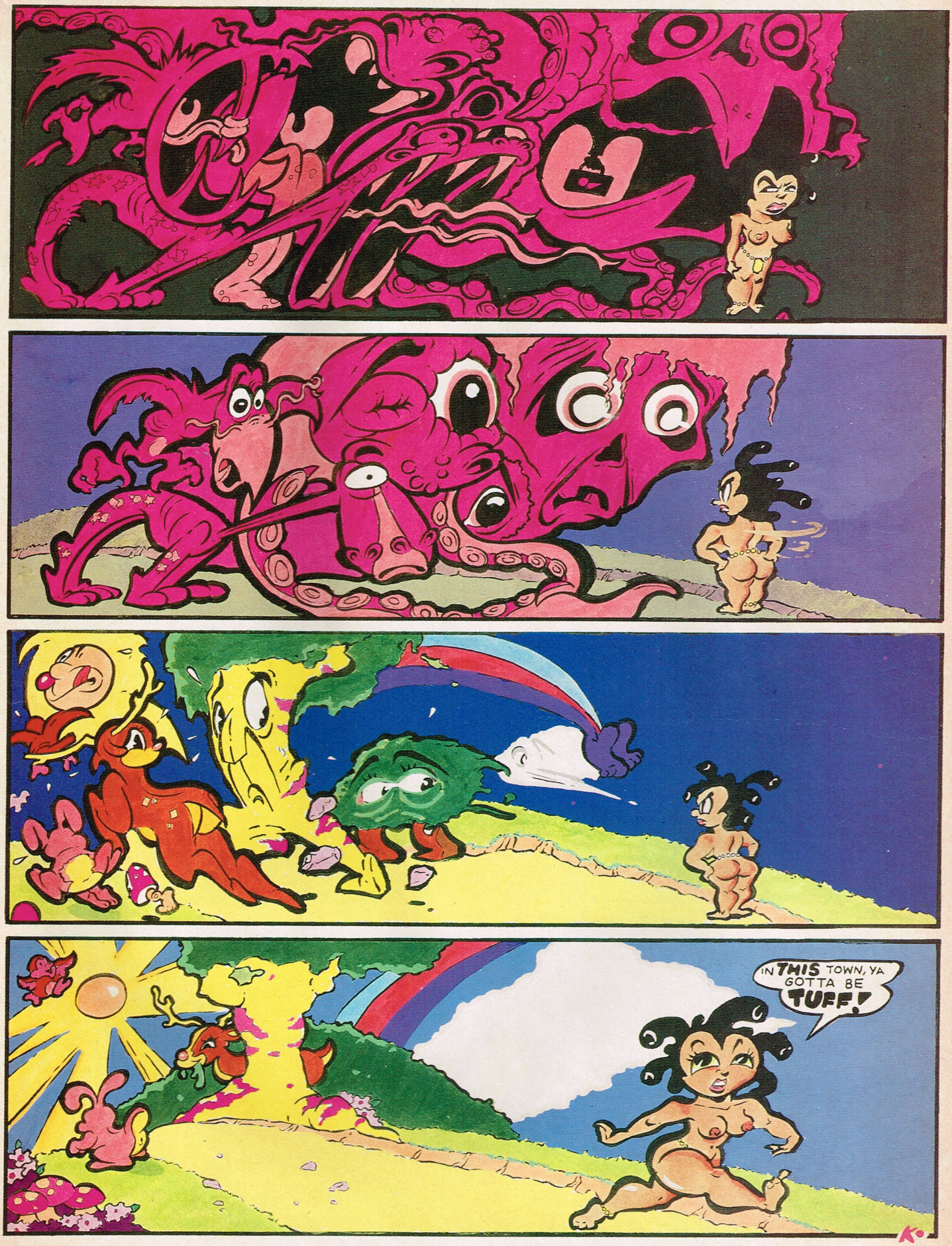


Mushrooms Down Under

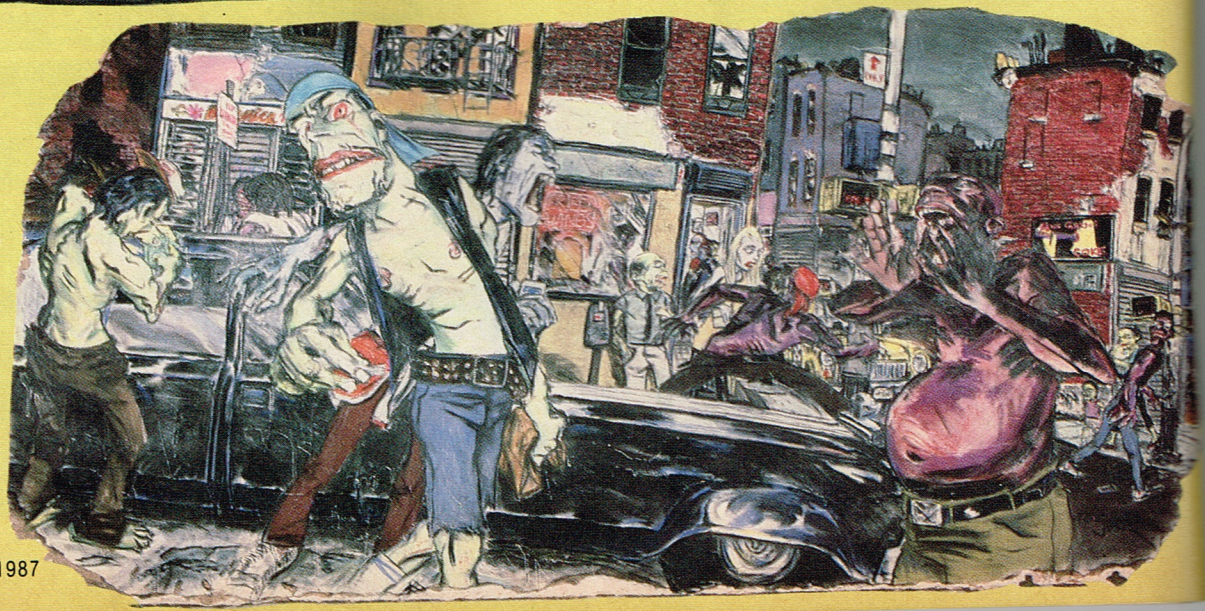
Photo by Dick Hoole




ZOE
©1987 by
MILTON KNIGHT


IN THIS TOWN, YA GOTTA BE TUFF!
K.


FRIED
WINGS



HIGH ART

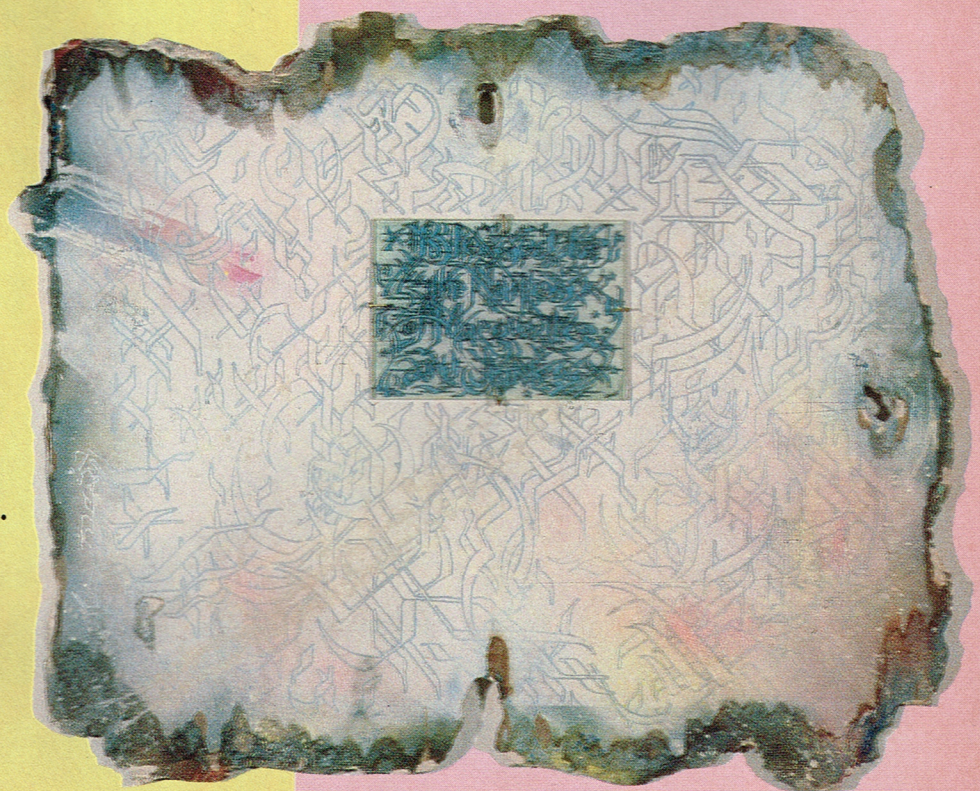
JAMES ROMBERGER

by Carlo McCormick

HIGH ART is not exclusively a vision of the sublime, it can also be the grim visage of the profane. JAMES ROMBERGER portrays the grotesque urban nightmare that lurks in the shadows of our cultural exclusivity. His is not a condescending view of moral authority or glamorized romantic indulgence, it is the hyper-real grasp of intimate personal confrontation. Employing the dramatic dynamics mastered during his tenure at Marvel Comics, Romberger illustrates a rotting garden of earthly delights. We see the human condition defiled and abused, the sores, the scabs and the crusty grime that grows on the wretched bodies of junkies and winos. We smell the detritus of man's degradation, the rotting humanity buried in a quagmire of waste. We feel the blank stare and frustrated frown of the helpless, the homeless, the hopeless, and spin downward with them in a vertigo of wanton frenzy. Reproduced on these pages is a drug scenario not so seductive as the usual psychedelic euphoria this column prefers to present, but one which the artist chose specifically for HIGH TIMES. Romberger is not preaching some trite message of "just say no," but he's not closing his eyes either. He's just serving up a slice-of-life; a pound of putrid flesh still bleeding from the jagged edge of the artist's pencil.

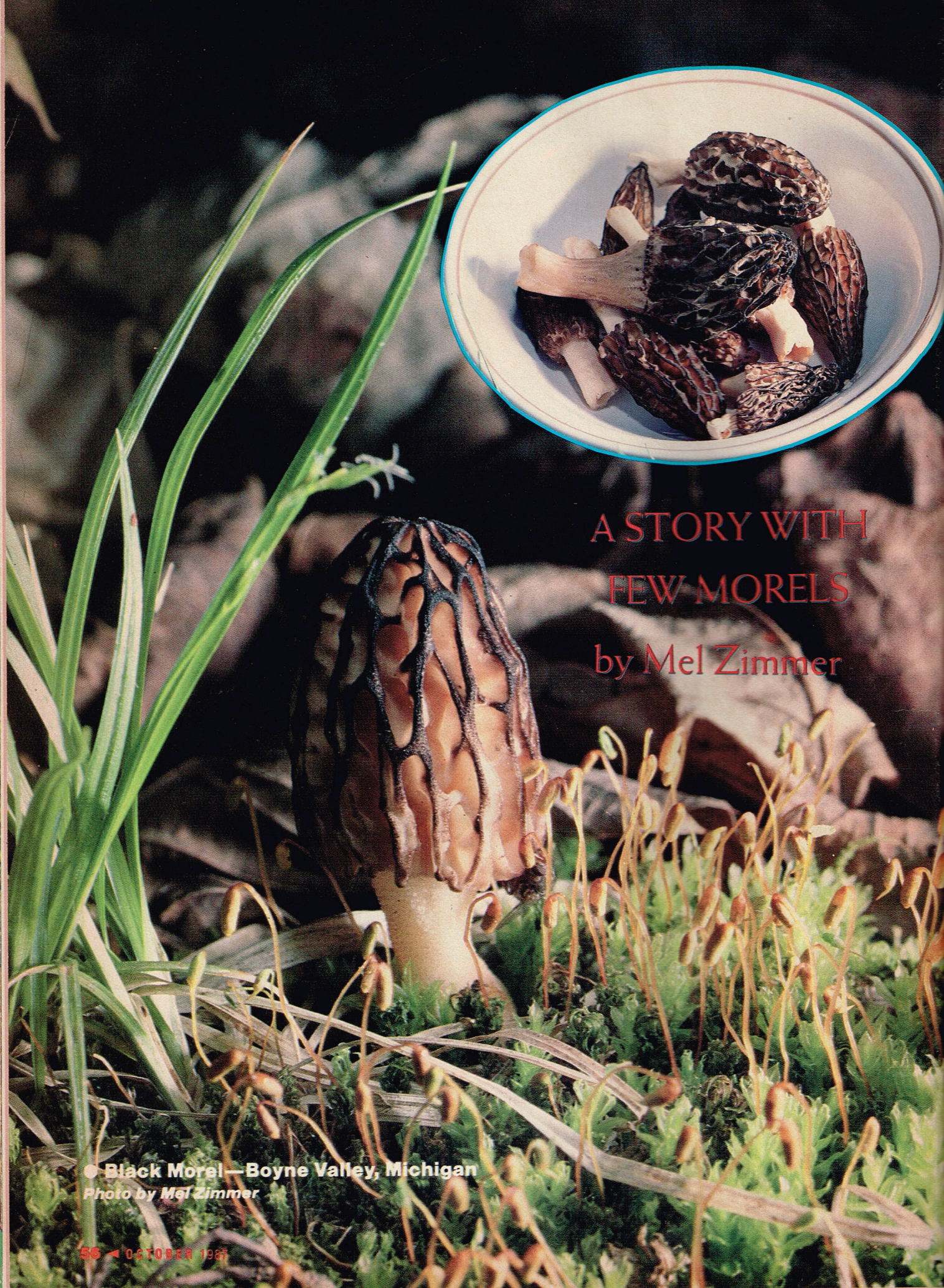


FRIED WINGS 5, **pastel on paper, 40" x 54", 1987.**



FRIED WINGS 3, **pastel on sheet rock, 4' x 9', 1986.**

BLESSED BE THE NAMES OF MARGUERITE AND JAMES, **mixed media, 20" x 30", 1986.**



A STORY WITH FEW MORELS

by Mel Zimmer

● Black Morel—Boyne Valley, Michigan
Photo by Mel Zimmer

The first time I'd ever heard of Morels was in the mid-sixties. I was an acting apprentice in a repertory acting company, and that year the Ford Foundation paid a poet to hang out with the company in hope that he would get into writing plays. He gave everyone in the company a poem about Morels for Xmas.

The company was Arena Stage Theatre in Washington, D.C., and some of my social life happened to be on Capitol Hill. A girlfriend of mine from Indiana got a care package of some beautiful White Morels from home, and shared them with me one night at dinner. After tasting them, I understood why the poet had wanted to share his poem with us.

I did not encounter Morels again until 1975. I was flying a kite at a farm I was living at in the Pennsylvania countryside. My seven-year-old daughter walked up and asked, "Which hand?" I chose her right hand and she showed me five Black Morels she had just picked on the edge of the woods. She knew them from watercolors and photographs in my library of mushroom ID books.

Now there is enough of a wallop in the Early Morel to cause loss of muscle coordination if you eat a substantial serving. But, make no mistake, the high associated with Morels is more in the hunt itself, the gratification of finding them when the hunt is successful, and the exquisite flavor a meal of the better Morels rewards you with.

Morel season is a fine and subtle one. First the Verpas come in, the Early Morels, and this occurs all during April. All this depends upon the onset of spring, on wooded shores built of rubble carried here and deposited at the end of the ice age. You have the feeling that Morel hypha is generated from wooly mammoth dung beneath the leaves carpeting the floor of the forest.

My girlfriend Lee and I decided to visit for two weeks in early May, when the Morel Festivals and National (Morel) Mushroom Hunt take place in the upper part of Michigan's lower peninsula. Some Early Morels are supposed to be around then. Blacks, Whites, Sponges, and the beautiful Golden ones are all supposed to follow (according to the literature we had, the best of which was written and published at the University of Michigan).

You want it to be warm and rainy to bring the Morels to fruit. The first night Lee and I camped outside of Boyne City the temperature dropped to 26°F just before dawn, and we awakened to a dry, windy day. It was so dry, in fact, that the next county was losing its topsoil to the drought and wind. The woods we searched were covered with dry transparent leaves that crunched loudly underfoot as we walked. Within a week the governor would call a state of emergency due to the drought, banning campfires and smoking in the woods of the entire upper part of the lower peninsula.

We were getting very frustrated. After three days of hunting we were emptyhanded. Then our luck changed. We met Tony Williams, the world's greatest Morel hunter. Tony and his friend, Glen, own the Depot Restaurant in Boyne City. It was once an old brick train station, but now it was their restaurant. Lee and I met Tony while having lunch there. He had been raised locally by serious Morel-hunting parents. Tony is the only person to win the competition five years in a row.

Soon, we were crashing through the woods in Tony's battered, four-wheel-drive jeep. The road was two very rough and uneven ruts bounded on either side by stands of mixed hardwoods. Trillium and wild leeks covered the rather dry looking floor.

Tony walked at the most rapid pace of anyone I have known in fifteen years of hunting mushrooms. He said when he competed in contests, he trained a few hours every day by running up and down hillsides. He had given up competing largely because of cheating. He'd been raised by Morel-picking parents, and enjoyed picking them with his family and for his restaurant.

We only managed to find seven Black Morels in about an hour and a half of hunting, but that wasn't bad considering how awfully dry it was everywhere we searched.

That night I dreamed Lee and I were out hunting for Morels in woods so dry the leaves on the floor were turning to powder. We ran deep into the woods and searched frantically, but could find no Morels.

Then Lee came to a glade that was cool and moist and found a large cache of Golden Morels standing full and fresh all around her. She filled her basket with hundreds of them. In the dream I photographed her picking them, but took none myself because she had found them. It was the competition. We found our way to a clearing where the contest officials counted her mushrooms. She had over three hundred. The next nearest competitor had only twenty. Lee seemed a sure winner. Then this couple who had been hanging out on the edge of the clearing came over. The guy looked just like Black Pete, the villain in Mickey Mouse, and his wife was big and fat.

All of their mushrooms were limpid and wet, almost rotten. It was apparent they were rotting from improper storage, but the contest officials gave them each a leather pouch with a gold coin in it. A very large Harley chopper came powering out of the woods and up to the officials. The heavily-tattooed biker aboard tried to turn in his find, and he broke open a paper grocery bag full of Early Morels even more rotten than the fat couple. I was yelling "No, no," as if I was underwater, and awoke to a cold, howling wind.

The contest itself was generally a failure since most competitors, some from as far away as Japan, came up with little or none. On the surface, it appeared there was some cheating going on, but it was impossible to prove.

We got seventeen Black Morels that day between us, Lee finding most of them. And we later were able to buy a lei of Black Morels from a biker who was dealing Early Morels at the festival. After the contest was over we went over to the Depot. Tony treated us to some Morel soup, and we said our goodbyes to his family and him since we were leaving the next day.

Except for the extreme cold, Michigan was a lot like California. The hunt was an experience we will never forget, and with the lei we did get over fifty Morels, which we are enjoying yet. If someday you choose to take the back-to-nature path, look alongside to see if some mushrooms are growing there. Maybe they can be of some use to you.

WHY have so many New Yorkers constructed towering antennas aimed at an obscure radio station in East Orange, New Jersey? And WHY has this tiny station become a powerful beacon of hope in a dark and dreary decade? Simple. Because WFMU has one of the most mind-blowing deejays around!!

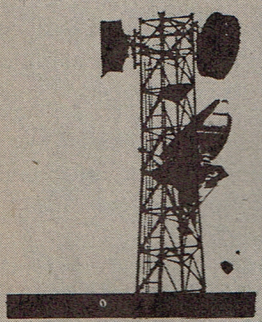
His name is Bill Kelly and he's into Paul Simon, muzak, and disco. Just kidding folks! Kelly hates that shit as much as you do! Since 1978, he's been playing the best in psychopunkadelia, from 1964 to the present.

I recently visited Kelly and his lovely wife in their modest home in New Jersey, where they are busy raising two kids on a limited income. Kelly works as a salesman for a wire-manufacturing firm, but plans on opening his own company this Fall. I'm happy to report he is NOT a boring archivist who collects minutia in a nerdlike frenzy, but a regular guy with a genuine love for real rock'n'roll who reads the *World Weekly News*..

"I just want to have fun," 'splains Kelly. "I hope that Bigfoot, Joe Isuzu, Dinosaurs in South America, Idi Amin's Fast Food Restaurant, and a cool mixture of r&b, doo-wop, '60s garage (mindless teenage brainrot), and some r-r-r-real rock'n'roll make it a fun show on the weekend."

Kelly's tapes are already circulating around New York with Deadlike intensity, so maybe you'll be lucky enough to hear one sometime. Those in the New York area can tune in Sundays from noon to 3 p.m., 91.1 FM.

Bill Kelly's Mindless Teenage Brainrot



BY STEVE HAGER

"I was born August 18, 1949 and had few problems with childhood. I have two sisters—one two years older and one two years younger. Most of my family likes opera and classical music.

"For my ninth birthday I bought a small transistor radio. A few days later I bought my first record: *IT'S LATE* by Ricky Nelson. Then I bought *SHOUT* by The Isley Brothers. My parents thought I was crazy.

"Two years later I graduated to a table radio. Late at night I'd tune into the far-away stations: WOWO in Fort Wayne, Indiana; WKBW in Buffalo; CKLW in Windsor, Ontario. They'd play great songs like *HEY JOE* by The Leaves, *I SEE THE LIGHT* by the Five Americans, or *PUSHING TOO HARD* by The Seeds. I used to listen to those stations because they'd play music New York stations wouldn't touch.

"After graduating from high school, I went to Holy Cross College in Worchester, Massachusetts. I started listening to obscure AM stations in New England. WORC in Worchester always had a reputation as a big break-out station. They'd play anything late at night.

"Holy Cross was widely regarded as a drinking school. There was an article in *PLAYBOY* during my freshman year naming it as one of the top ten drinking schools in the country. That changed. Four years later whole corridors in the dorms were filled with pot smoke. It was almost unbelievable. I tried pot, but I was never a big drug user.

"My first radio show was on September 2, 1967, on WCHC, the sound of 640. *The sound habit of the campus and the sound habit to get into. My name is Bill Kelly and this is Underground.* I did the show once a week for three years.

"Back then my favorite band was probably The Jefferson Airplane, but I wouldn't want that in the interview, because I don't care for them anymore, hahaha. Some of my favorite songs were *I HAD TOO MUCH TO DREAM LAST NIGHT* by The Electric Prunes, *DIRTY WATER* by The Standells, and *LIAR, LIAR* by the Castaways.

"Woodstock was probably the worst thing that happened to rock'n'roll, because you had 500,000 stoned, stupid hippies out in the mud drooling on themselves and getting all



TOM BESSOIR

BILL KELLY AT THE WFMU STUDIO.

screwed up and listening to a lot of mediocre bands—many of whom were mellow singer/songwriters and slow psychedelic bands. And yet that became the beacon for pop music in the early '70s. So we had all kinds of drivel like James Taylor and Elton John and Chicago, ad nauseum. Disco was almost a relief compared to the misery we had to put up with in the early '70s. Not that I like disco. I *hate* disco. But it wasn't until 1976, when the British new wave arrived, that things started to open up again.

"I don't think there's anything really wrong with smoking pot once in a while, but the association of drugs and music in the '60s killed the best music. People started producing more mellow music. They claimed it was more lyrical and tuneful, but it was just drivel. R-r-real rock'n'roll is an arrogant, snotty, raw form of power pop. Not psychedelic, not punk, just four great guys taking three great chords, putting them onto two great sides of one great single. The years between Woodstock and the Ramones were pretty empty.

"After I left college, I worked as a traveling salesman. It took me over a year to get a decent job out of college. I got to travel all over New England, listening to radio stations. I always looked for something that rivaled what I'd heard back in high school, but never found it.

"Eventually it dawned on me that a station like WFMU, which had a freeform format, might be interested if I put together a series of demo tapes. I got on the air in August, 1978, doing fill-ins.

"I never had it in mind to do a '"60s Garage Show." I just figured that '60s garage was deader than the pharoahs and played it only because it was always my music of choice. My first show featured The 13th Floor Elevators, Lothar & the Hand People, The Electric Prunes, The Barbarians, and The Ultimate Spinach. Someone called me on the phone and in true brain-damaged fashion slurred, 'The '60s is now, man.' I like to think that on that day the bad seed was planted for a second wave of garage music.

"Much as I hate the Beatles, they were responsible for the first wave, so hats off to them. Because of the Beatles, all these kids with original ideas untainted by commercial radio decided to form bands: The Seeds, The Chocolate Watch Band, The Headstones, The Standells. Texas was the most prolific state, with The Bad Seeds, The Bobby Fuller Four, The Five Americans, The Zakary Thaks.

"The second wave started in the late '70s with the second British invasion. Bands like Wire, who recorded *DOT DASH* back in '77, are just now becoming popular. My favorite current bands are The Cynics and The Chesterfield Kings. There's also a lot of good bands coming out of Sweden and Australia.

"I have friends who absolutely *love* The Grateful Dead and will go anywhere to see them. They'll even take LSD on occasion, even though they're doctors and insurance salesmen, fat and forty. But I can't stand The Grateful Dead. I'll play one song a year by them just to say I did it, but if you have to take acid to enjoy music, maybe there's something wrong with the music."

BASEBALL FEVER

Ah, it's World Series time—you kick back, swig some brew, catch a buzz, and enjoy the year's best baseball. But in 1987, fans and players had to fight for their rights as the new prohibitionists forced cutbacks in beer sales at the ball park, while players were publicly humiliated with the threat and the results of "voluntary" drug tests. In its attempt to repress baseball, the anti-drug-and-drink factions deny the game's lively history, one of rebellion and outrageous off-the-field behavior.

BY JONATHAN GITLIN

Ballplayers and their fans will always be a rowdy bunch. Efforts to "clean up" the game are the latest battle in over one hundred years of conflict between baseball and self-appointed reformers. A religiously inspired ban on Sunday baseball ended in the 1930s, but now the prohibitionists are back at the gates of the ballpark.

Potsmokers Unanimous

"Can you find a professional ball team today without a group of casual pot smokers? I doubt it." This was noted baseball writer *Roger Kahn*'s reaction to the scent of weed on the team bus in 1983, when he wrote his story of one year as the owner of an upstate New York minor league. Rather than expressing shock at potsmoking ballplayers, he reports getting drunk with the team manager in the front "while sweet smoke curled about the back of the bus." It's hard to believe that all minor league players are now forced to submit to drug tests.

Such tolerance has not been common in baseball circles. This year, New York Mets' pitching ace *Dwight Gooden* was forced to publicly apologize for failing a preseason drug test. Of course, Gooden can still pitch, so the money-hungry owners will keep him around. In 1975, the Mets released an aging *Cleon Jones* after forcing him to apologize for being found asleep and nude in a car (with a woman, a joint, and two pipes) by St. Petersburg police. Jones and Gooden both had to express shame and regret before the sports media at a time when Americans were indulging in all forms of illegal highs. For instance, when *Tug McGraw* answered the question, "Do you prefer Astroturf or natural grass?" by responding, "I don't know, I've never smoked Astroturf," it was a joke that became a part of baseball folklore.

While one player is known to have pitched a game tripping on acid (**"Dock Ellis and the Electric Baseball Game," HIGH TIMES, August 1987**), far more common was the household variety upper—greenies. Freely dispensed in most clubhouses in the sixties and seventies, amphetamines fueled tiring or hung over ballplayers. Oakland pitcher *Chuck Dobson* once explained, "When you've got the flu and you've got to pitch, what are you going to do?" *Jim Bouton*, in his classic baseball exposé **Ball Four**, said, "I've taken greenies—they make you feel so great you think you're really smoking when you're not."

Bouton's book told the truth about ballplayers' off-the-field antics: drinking, smoking, screwing, and peeping through hotel windows to the dismay of the conservative baseball establishment. He also fought for political causes, appearing at an anti-Vietnam war demonstration after the end of the 1968 season. **Tom Seaver**, who retired early this year, also spoke out politically. Before the 1969 World Series, he proposed the idea of buying a half-page ad in the *New York Times* that would read, "If the Mets can win the World Series, then we can get out of Viet Nam." Before the final game of the '69 Series, Seaver received a telegram of support from *Abbie Hoffman*, *Jerry Rubin*, *Tom Hayden*, and the rest of the *Chicago Eight* during their conspiracy trial. While some claimed politics had no place in baseball, *Rusty Staub*, in June 1968, was fined a day's pay for refusing to play on the day designated a national day of mourning for the slain *Robert Kennedy*.

Getting Wrecked at the Game – A Tradition

Beer and baseball have been associated with each other since the game's beginnings. At the turn of the century, the sight of an empty beer barrel before a ballgame was considered good luck, prompting *New York Giants*' manager *John McGraw* to have a wagonload of empty barrels hauled past the Polo Grounds during the 1905 World Series. Not everyone approved of the booze'n'baseball connection however—in 1910, according to baseball authority *Bill James*, a baseball union organizer unsuccessfully tried to require a promise of abstinence as a condition of all player contracts.

A few years later, *Ring Lardner*'s fictional ballplayer "*The Busher*" reported "getting logey" on San Francisco's potent steam beer in the classic **You Know Me Al**.

The forces of Prohibition soon gained the upper hand. Vendors were enlisted by league officials to identify unruly fans in the stands and serve as witnesses against them in court. By 1931, after years of prohibition, unhappy dry fans greeted *President Hoover* at the World Series with the chant, "*We want beer, we want beer!*"

By the time Prohibition ended, this century's greatest

continued on page 76

IT'S SICK!

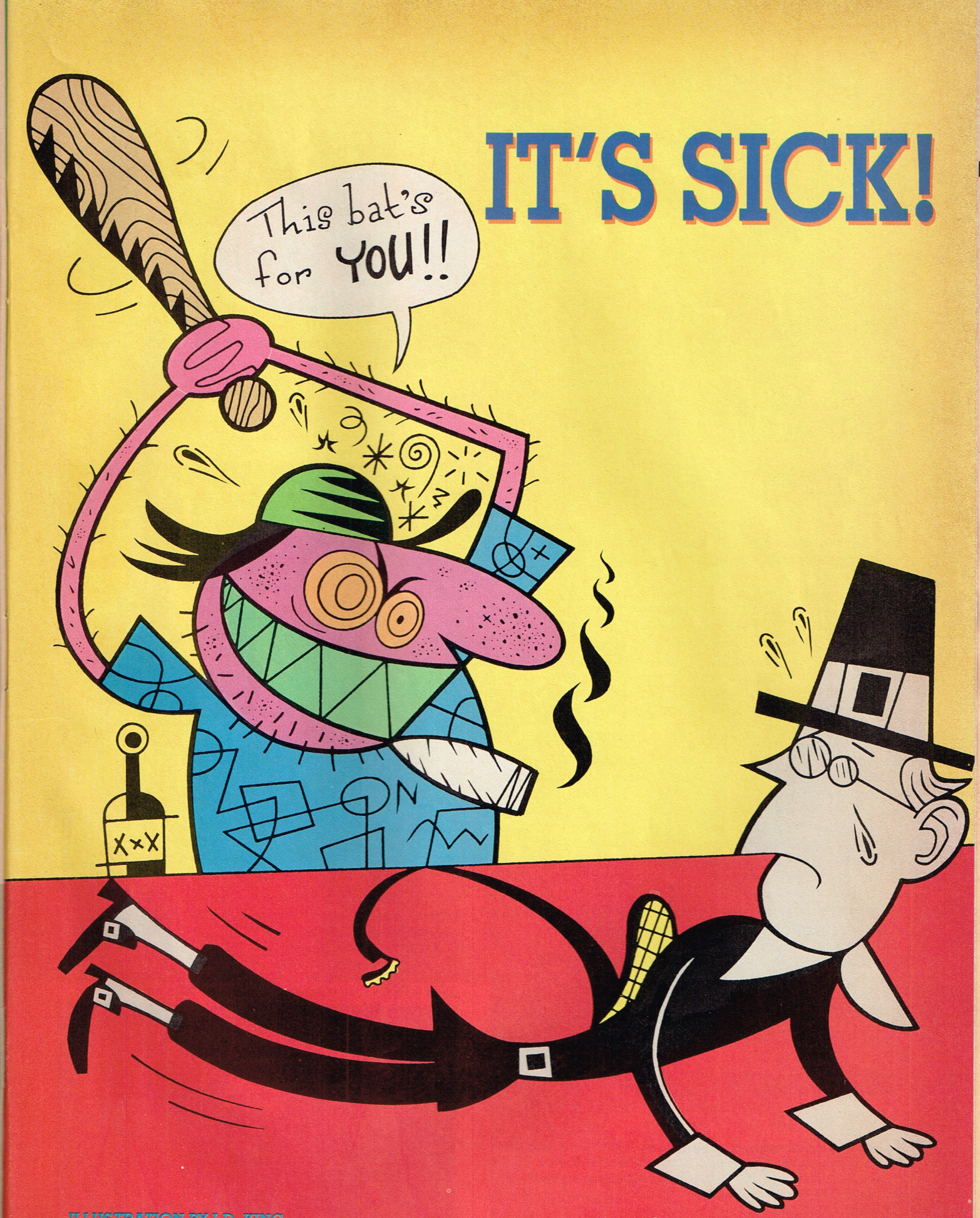
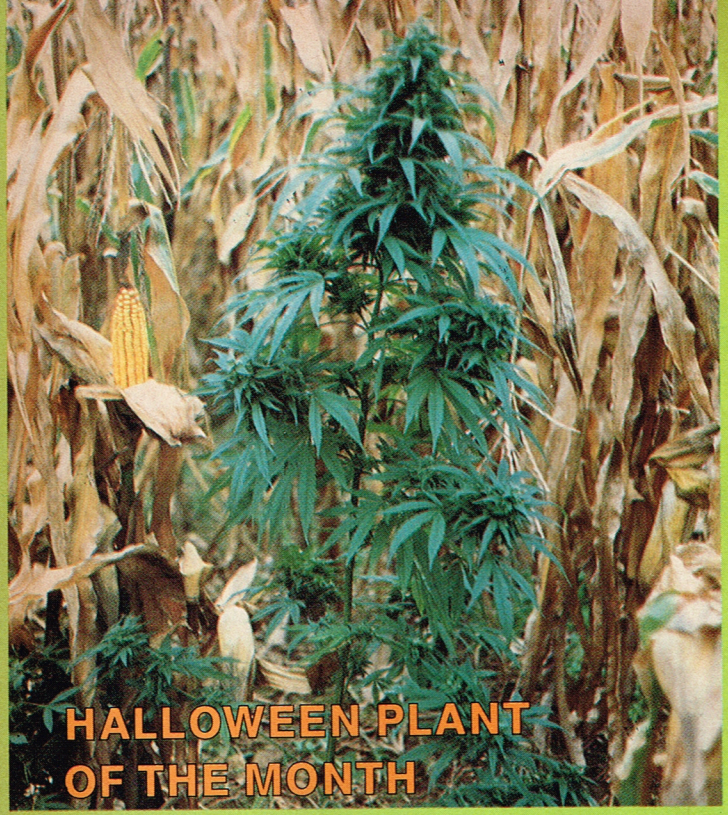


ILLUSTRATION BY J.D. KING



HALLOWEEN PLANT OF THE MONTH

The Plant: Started under 24" fluorescent tubes and put outside in late May. Deer damage on the lower half of the plant can be seen in photo. The corn cob has been partially shucked to show size comparison and even though it might not look too big, it was a hefty cob. This was the fattest bud I ever saw! It was an Afghani-*indica* x Kashmiri-*indica*, harvested October 4.

I have been growing pot for eight years. My first pot was from Oaxacan seed. It was fruity and tasted great. Since then my crops have improved every year in total yield, quality, size of buds, and varieties. I have been fortunate enough to acquire some very desirable varieties such as Afghani, Kashmiri, Cambodian, and Hawaiian.

I keep accurate records of most everything. I get aerial maps from the U.S. government, soil analysis tests from the state university, and wear camouflage when I visit the plants at night. Above all, I keep my mouth shut.

Naturally, I have had losses due to animals and corn harvesters. I have dodged hunters, helicopters, and even hurricanes. I have pulled thousands of burrs and related things from my clothing. I have crawled on my belly through mud and low shrubs carrying fertilizer to my plants and scratched my body open on stickers and thorns from head to toe.

But when the plants are all in, the seed restocked, and the stash sealed and stored, growers of the ganja plant like me can finally let out our sighs of relief, take another hit, and thank Mother Nature for the wondrous opportunity to partake in her endless cycles of life and rebirth right here on planet Earth.

—THE BLACK SWAN
ALLENTOWN, PENNSYLVANIA

HALLOWEEN GARDEN OF THE MONTH

Until I have the means to grow indoors, I am forced into the Maine wilderness to face rip-offs, cops, and Mother Nature.

Dazed and confused, the Busch monkey stands in the shade of a mixed *indica* and *sativa* garden.

—TOKIN' BEER WOLF
CENTRAL MAINE

ASK ED

BY ED ROSENTHAL

[I did not know that there was a Halloween Photo Contest, but I must have mentioned it in the column. Why else would so many people send me Halloween-type photos — Ed R.]

HALLOWEEN PHOTO CONTEST WINNERS

SPECIAL HALLOWEEN BUD



These buds came from plants grown under 100-watt and 250-watt fixtures. The plants survived an emergency move and 100°F San Joaquin Valley summer. Under the heat stress, this *indica* strain's leaves became thin, short, and narrow. Yield was low but not bad for a first indoor try.

—THE FRESNO GUMBY & CO.
FRESNO, CALIFORNIA



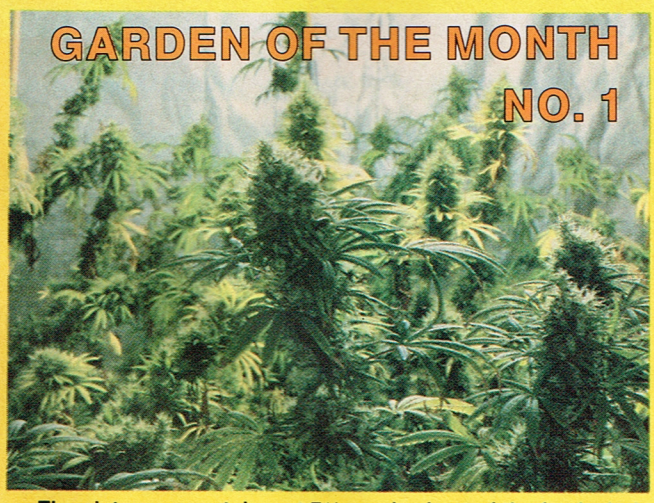


PLANT OF THE MONTH

Is anyone using Rockwool? If you are not, you should be. It is the greatest thing since the roach clip.

Now I'm switching to the Dutch plantlet method. The plant in the photo was forced at 14" and bloomed for ten weeks. The entire plant was grown from seed to finish in five months. The root system fits in a two-gallon container. The tape in the picture is 25" long. The seed is SSSC's "Khyber Afghan Creeper." It has a sweet *sativa* smell. Not a very harsh smoke, but smooth and sailing.

—L.L.
ALASKA



GARDEN OF THE MONTH NO. 1

The pictures were taken at 7½ weeks. Last of the fresh virgin pistils are screaming for pollen! Hybrids sure do grow like crazy! This is too fun!

GROWING SPECIFICATIONS:

One metal halide (MH) on a 6' shuttle.

CO_2 constant distribution (only about 600-700 ppm can be processed with my one light setup. Any more is waste.)

FOIL: Dull side out.

Hydroponic reservoir system.

MEDIUM: 50-50 mix of vermiculite and perlite.

Two blends of fertilizer (including trace elements) for both the grow and bloom stages.

Fan to break microclimates on the leaf structure, blend CO_2 into the room's atmosphere, and make for strong branches to hold up heavy flowers.

ION GENERATOR: Not for me, for the neighbors. I like the smell of ripe buds!

—YANKEE
BOSTON, MASSACHUSETTS

[To view the garden properly, I awarded "Yankee" a double GOTM winner—ED R.]



GARDEN OF THE MONTH NO. 2

—JACK & THE BUDSTALK



BUD OF THE MONTH

—STICKY FINGERS
ANCHORAGE, ALASKA

continued on page 71



THE DOPE ON SOUTH AFRICAN

A good place to check out different types of South African pot is the Transvaal Coffeeshop in Amsterdam, Holland. This shop specializes in South African pot and the dealer is quite knowledgeable. Most of this weed comes complete with seed. Pictured here are some varieties available at the shop last spring.

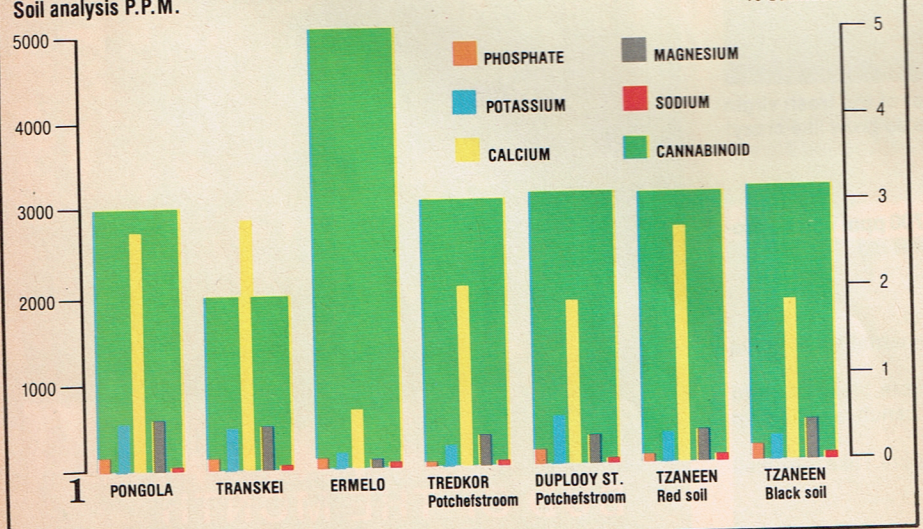
Adopted by Ed Rosenthal from a paper by Prof. J. Offermeier, Director, Research Unit for the Medical Research Council, South Africa.

Recently I received a letter from a correspondent in South Africa which read in part as follows, "...the enclosed photostat is a paper delivered at a recent dope conference (early 1985) here in South Africa; perhaps you will find the information useful..."

Although I respect the almost total boycott of South Africa, I take exception to the marijuana information trade since there is no, absolutely no, financial or economic aspect, and marijuana is a criminal offense considered to have political overtones in South Africa. In other words, the government has declared that pot smokers are enemies of the state.

Here's the info from the article—Ed R.

TOTAL PERCENTAGE OF CANNABINOIDS OF MEDIUM-SIZED PLANTS (F) FROM DIFFERENT REGIONS



Notice the low amounts of calcium, potassium and magnesium in the soil from the Ermelo District. Could the high total cannabinoid content of these plants be related to that?

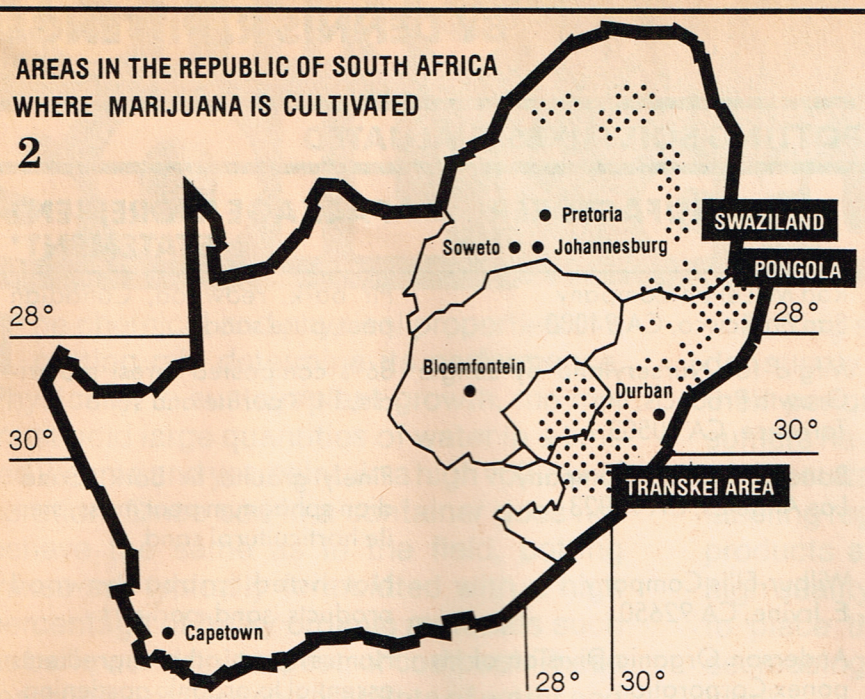
SOME CHEMICAL BACKGROUND

• **CANNABINOIDS** are the main group of chemical compounds found in cannabis. A number of these are psycho-active. Tetrahydrocannabinol (1THC) is considered the primary active ingredient responsible for the high. It is most effective when smoked rather than when taken orally. This is because the 1 THC is often in the acidic form (it is holding a water molecule) in its natural state. The water is evaporated (decarboxylated) when the herb is smoked. This renders the THC about 3 times as potent.

SOUTH AFRICAN weed contains a high proportion of THC while its cannabidiol (CBD) content is negligible. No psycho-activity is associated with CBD, although it does have anti-epileptic properties. (It is also associated with a buzz, but not a high, and may be somewhat disorienting and tiring.—Ed)

AREAS IN THE REPUBLIC OF SOUTH AFRICA WHERE MARIJUANA IS CULTIVATED

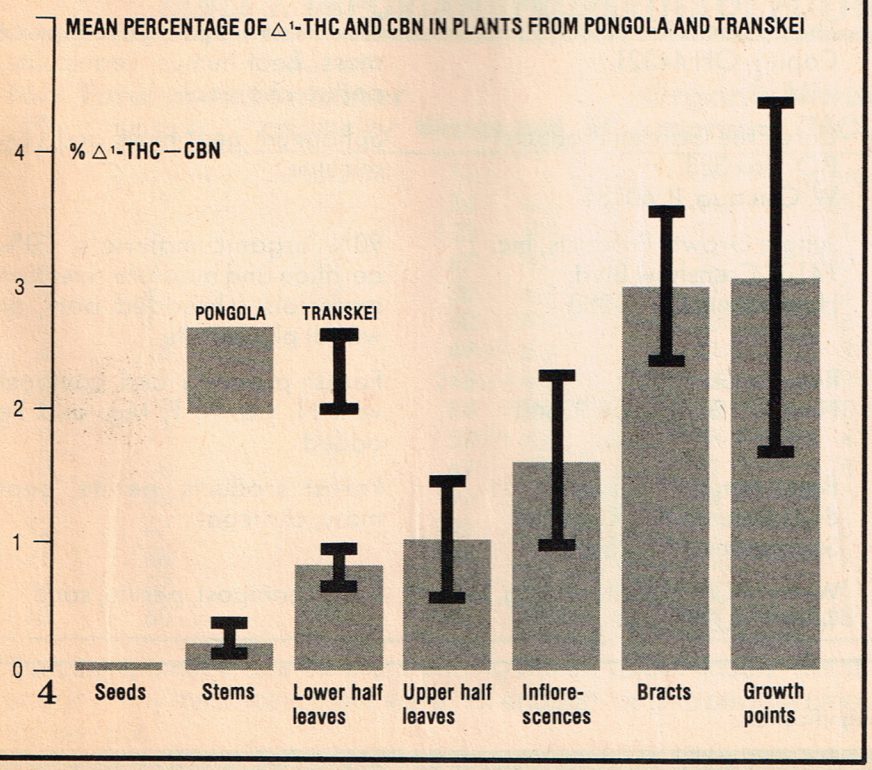
2



MEAN PERCENTAGES △¹-THC AND △¹-THCN IN PLANTS CULTIVATED FROM SEEDS ORIGINATING FROM THREE REGIONS

3

LOCATION	MALE		FEMALE	
	△¹-THC	△¹-THCN	△¹-THC	△¹-THCN
TRANSKEI	1,4355	0,0622	2,3614	0,2379
DURBAN	2,4703	0,0948	2,6254	0,1095
GOLELA (Pongola District)	0,9912	0,8563	2,5962	1,6297



THC and 1 tetrahydrocannabivarine (1THCN), a derivative of 1THC are also psychoactive. Researchers think THCN has 1/4 the potency of THC. (On the other hand, THCN, which is also found in central African pot such as Nigerian and Congolese, may be responsible for the pot's extreme spaciness. THCN may be responsible for the highs associated with the best *sativas*—Ed) CBD is almost absent in South African pot, while THCN is found in pot from some areas (the Pongola District). No other cannabinoids are thought to be psychoactive.

THC AND THE PLANT

Young, actively growing plants contain higher concentrations of THC in their upper parts as the plants change from vegetative to flowering stages. The highest concentration of THC is in the mature flowers.

Deficiencies of potassium (K) in the soil influence the yield. High soil K seems to correspond inversely with cannabinoid content. Calcium content may also be conversely related to THC production. See chart # 1.

Unfortunately, the figures in all of these tables are distorted by the crude methods these researchers use to measure sample content. First they dry the plant at about 200°F for two hours. Then they grind the whole plant or plant part up without manicuring it, so that both bud and other vegetative material are measured together.

Even with the poor sampling techniques, all of these varieties measure fairly high cannabinoid contents.

CBN, cannabinol, is considered a degradation product of THC. Once again, despite the technology available to these researchers, they show poor sampling technique. They do not state at what point in development these samples were taken. Plants growing vegetatively are certain to have a different profile than plants in early or late flowering.

Notice that South Africa's weed growing areas fall within the 30th latitude, N. South African weed is *sativa*, it tends to be vigorous, branchy rather than a tight bush, and very early maturing. Excellent for crossing with *indicas* to which it lends vigor and total weight. ●

TABLE 1. POTTING SOIL MIXES EVALUATED

MIX ID	NAME OF MIX	MANUFACTURER	PACKAGE INGREDIENT STATEMENT*
1	Supersoil	Rod McLellan Company San Francisco, CA 94080	Fir bark, redwood, Canadian peat, pure sand
2	Perma-Gro All-Purpose Potting Soil	Mfg'd for Nurseryland by Jungle Growth Products, Inc. Torrance, CA 90503	86% composted forest materials, 14% perlite and sand
3	Bandini Potting Soil Formula 105	Bandini Fertilizer Company Los Angeles, CA 90023	Finely ground fir bark, Canadian sphagnum peat moss, sterile horticultural sand
4	Good Earth Potting Soil	Wilbur-Ellis Company E. Irvine, CA 92650	Not listed (probably wood products, sand, perlite)†
5	Vita-Hume Outdoor Planting Mix	Anderson Organic Division of Hyponex Corporation Fort Wayne, IN 46801	Humus, peat, other ingredients essential to organic gardening
6	UniGrow Potting Soil	L&L Nursery Supply, Inc. Chino,CA 91710 Fremont, CA 94536	Redwood sawdust, ground fir bark, washed sand, peat moss, vermiculite
7	Power-O-Peat (sold by 20-lb bag)	Power-O-Peat P.O. Box 956 Gilbert, MN 55741-0956	75% organic peat moss, 15% perlite, 10% vermiculite
8	Gromulch Planting Mix	Kellogg Supply, Inc. Carson, CA 90745	Forest products and composted centifuged sewage sludge
9	Unigrow African Violet mix	L&L Nursery Supply, Inc. Chino,CA 91710 Fremont, CA 94536	Redwood sawdust, ground fir bark, peat moss, washed sand, vermiculite, perlite
10	Hyponex Professional Mix Potting Soil	The Hyponex Co., Inc. Copley, OH 44321	Canadian sphagnum peat moss, peat humus, vermiculite, perlite, charcoal
11	Jiffy Mix	Care Free Garden Products P.O. Box 383 W. Chicago, IL 60185	Sphagnum peat moss and vermiculite
12	Jungle Growth House Plant Potting Mix	Jungle Growth Products, Inc. 14107 Crenshaw Blvd. Hawthorne, CA 90250	90% organic materials, 10% aeration and moisture retention materials (shredded bark or wood) plus perlite
13	Roger's Potting Soil Mix	Roger's Gardens Newport Beach, CA 92660	Forest products and compost with N, Ca, K, P, Mg, and Fe added
14	Black Magic House Plant Mix	Black Magic Products 8137 Elder Creek Road Sacramento, CA 95824	Forest products, perlite, peat moss, charcoal
15	K-Mart Potting Soil	Western Garden Marketing, Inc. Tempe, AZ 85283	Forest compost, perlite, sand

* Listed in order of decreasing volume.
† Estimated by visual inspection under magnification.

POTTING SOIL pH is crucial!!

The chemical and physical properties of a potting mix determine its performance. Physically, to sustain plant growth, the mix must hold large quantities of water in a limited volume and yet maintain a high volume of aeration. Since soil in a container does not behave the same as in the field, potting mixes are typically formulated with a high percentage of bulky organic materials such as bark, wood chips, peat, or compost. These materials hold varying amounts of water and also create pockets of air in the mixture. Mixes usually contain additional nonorganic materials such as sand, vermiculite, or perlite, which provide additional aeration and structure.

Research has also shown that, chemically, quality potting soils must be low in soluble salts, slightly acidic and capable of holding essential nutrients for plant growth.

Potting soil mixes sold through retail garden supply outlets in California vary widely in their performance as growing media. Consumers have frequently reported unsatisfactory results with many mixes despite state labeling regulations designed to ensure that products are properly identified and are of high quality. Manufacturers are now required to place the names of the ingredients in decreasing order of volume on the product label.

This study was conducted to determine how useful the labeling information is in predicting the performance of potting soil mixes before they are purchased and used. Single bags of 15 widely available packaged potting soil mixes were purchased at random from various retail garden supply outlets in southern California (table 1). Their relevant

continued on page 69

TABLE 2. IMPORTANT PROPERTIES OF POTTING SOIL MIXES

Mix ID	Total pore space	Air @ container capacity	Water	pH	EC	Organic matter	Nitrate (NO_3)	Ammonium (NH_4)	P	K
	% volume	% volume	%		dS/m	%	ppm	ppm	ppm	ppm
1	79	12	34	6.1	2.8	39	355	6	201	516
2	66	9	135	5.9	0.85	97	1	43	61	694
3	89	13	67	4.3	4.0	50	360	32	173	1,052
4	87	19	38	6.7	6.0	51	2	25	165	3,000
5	71	6	80	4.4	9.1	50	16	43	10	152
6	68	8	49	6.2	2.1	41	3	32	206	556
7	77	12	248	4.4	0.3	93	49	6	9	72
8	75	13	84	4.9	11.5	45	1,770	359	150	1,072
9	73	10	59	6.4	1.0	38	4	23	106	364
10	58	9	67	4.5	9.2	52	28	61	10	200
11	85	13	91	5.8	1.8	48	710	21	53	1,060
12	67	12	121	6.7	1.6	95	8	407	143	1,152
13	88	20	164	7.2	1.4	90	9	27	190	1,128
14	67	9	152	7.5	0.7	88	6	37	38	2,560
15	60	12	87	6.3	1.4	68	68	261	18	892

Seeding growth in the different potting mixes varied widely. Some developed poor root systems and, in many instances, there were not enough roots to permit removal of a soil/root plug intact from the test pot.

WASSON'S VOYAGE

continued from page 41

respective portions, the Señora crossing herself with the last swallow...

"At about 11:20 o'clock Allan leaned from his chair and whispered to me that he was having a chill. We wrapped him in a blanket. A little later he leaned over again and said, 'Gordon, I am beginning to see things,' to which I gave him the comforting reply that I was too...

"The patterns grew into architectural structures, with colonnades and architraves, patios of regal splendor, the stonework all in brilliant colors—gold and onyx and ebony—all harmoniously and ingeniously contrived, in richest magnificence extending beyond the reach of sight. These architectural visions seemed oriental, though at every stage I pointed out to myself that they could not be identified with any specific oriental country...

"At one point in the faint moonlight the bouquet on the table assumed the dimensions and shape of an imperial



conveyance, a triumphal car, drawn by zoological creatures conceivable only in an imaginary mythology, bearing a woman clothed in regal splendor. The visions came in endless succession, each growing out of the preceding one. We had the sensation that the walls of our humble house had vanished, that our untrammeled souls were floating in the empyrean, stroked by divine breezes, possessed of a divine mobility that would transport us anywhere on the wings of a thought. Only when by an act of conscious effort I touched the wall of Cayetano's house would I be brought back to the confines of the room where we all were, and this touch with reality seemed to be what precipitated nausea in me."

What Wasson experienced and felt during his first trip on the magic mushrooms convinced him that he would never do it again, but a few nights later he asked Maria Sabina if she would repeat her performance in order to record the proceedings. On this occasion his friend Allan Richardson declined partaking of the mushrooms so he could photograph the session in its proper perspective.

The subsequent news of Wasson's startling discoveries under the influence of inebriating mushrooms became public knowledge in 1957, with the publication of a two-volume set of books called *Mushrooms, Russia, and History*. Even though these books are out of print, many University libraries have copies available for viewing. They are usually kept in the rare book rooms and may not be checked out. Since Wasson's death last year, both volumes are in the process of being reprinted.

LETTERS

continued from page 28

HYDRO SHROOMS

I have seen references to hydroponically grown mushrooms in your very good magazine. Can I get more information?
—*K.B.*
London, Ontario
Canada

You'll be happy to know that an article on growing shrooms indoors is currently in the works. An excellent guide in book form is *The Mushroom Cultivator* (to order, see our Bookstore on p. 95).

BIG BUD BOOK

You recently had an article on Big Bud (March'87). Well, this caught my interest in cloning. I have never seen a book on cloning. If one exists, please let me know.
—*Your Big Fan*
Titus, Alabama

We don't know of any grow books specifically on cloning, but if you check the bookstore ad on pages 94-95, you'll find several books on indoor gardening, most of which contain a chapter on cloning.

GOOD IDEA

Ace had a very good idea in his letter (June'87). Why not a page devoted to "people helping people"?
—*Keriterfhristadi*
Las Cruces, New Mexico

Beginning next month, Activist News becomes Activist Calendar. If you have any listings for the Calendar (political rallies, etc.) send them to Activist Calendar, HIGH TIMES, 211 East 43rd St., NYC 10017.

BOYCOTT KODAK!

Eastman Kodak, IBM, and GE are involved in random piss testing and should be subjected to boycotts. Kodak recently went to great lengths to get a law vetoed in Rochester, NY, that would have limited random testing. If you have time, please write Mr. H. Kaska, Public Relations, Eastman Kodak, 343 State St., Rochester, NY 14650. Tell him you're not buying Eastman Kodak products due to their entanglement with Reagan/Meese-sponsored fascism.
—*Mr. G.*
Rochester, New York

COVER TO COVER

I really hope your mag sticks around and doesn't change. I don't read much, but when HIGH TIMES comes, I read it cover to cover. And yes, I get funny looks when I buy it. But who cares? It's a totally cool magazine that tells it like it is!!!
—*E.V.*
St. Petersburg, Florida

● Send your letters to HIGH TIMES "Letters," 211 E. 43rd St., New York, NY 10017. ●

POTTING SOIL

continued from page 67

physical and chemical properties, plus their ability to support seedling growth, were evaluated.

PHYSICAL PROPERTIES

It is generally agreed that adequate soil aeration, reasonable water-holding capacity, and free drainage are essential physical qualities of an acceptable potting soil. Aeration is thought to be the most important physical property for most situations.

Since standard methods for determining many of the physical properties of soils are not well suited to testing potting soil mixes under actual use conditions, simplified methods were developed to provide accurate, replicated measurements. The procedures were carried out in standard, warm greenhouse conditions and were devised for use with 1-gallon or smaller plastic pots, with each pot constituting one replicate.

The study included six 3-quart pots of each mix. Each pot was filled loosely to the rim with a mix, then tapped sharply on the bench five times to settle the material. Filled pots were watered thoroughly and the ease of wetting was noted.

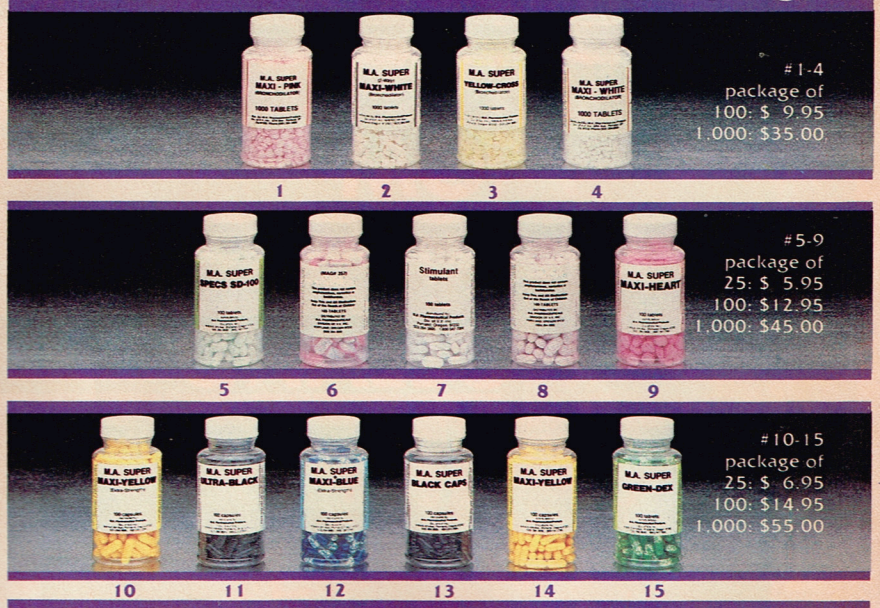
The pots were then watered three times a week for four weeks to allow compaction. After the final watering, the pots were placed in a saturation tray for 24 hours, weighed, allowed to drain for 48 hours, and reweighed as a means of calculating pore space and container capacity volumes. The exact volume of potting soil in each container was used to determine volume ratios associated with physical properties of the potting soils. The infiltration rate was then measured immediately by observation of the time required for 200 ml (nearly 7 fluid ounces) of water to move through containers after they were saturated.

Finally, a core sample of known volume was taken from the center of each container, then oven-dried and weighed so that the dry weight of the total soil mass as well as the bulk density could be calculated for each potting soil.

Results for the total pore space determination indicate that four soils had ideal levels (mixes 3, 4, 11, 13), nine other products had moderately high levels (mixes 1, 2, 5, 6, 7, 8, 9, 12, 14), and the rest (mixes 10, 15) had only moderate levels. The volume of air-at-container capacity, which is the amount present after watering and subsequent drainage, was in the suggested optimum percentage range in mixes 1, 3, 4, 7, 8, 11, 12, 13, and 15, but less than optimum in the other six products.

continued on page 77

S T I M U L A N T S



1 2 3 4

#1-4 package of 100: $ 9.95 1,000: $35.00

5 6 7 8 9

#5-9 package of 25: $ 5.95 100: $12.95 1,000: $45.00

10 11 12 13 14 15

#10-15 package of 25: $ 6.95 100: $14.95 1,000: $55.00

Product Number
SIZES 25 / 100 / 1,000
Quantity
Free Catalog

Total Amount Enclosed $_____

Guaranteed same day shipping

M. A. PHARMACEUTICAL CO.
1618 N.E. 6th Ave. • Portland, OR 97232
For C.O.D. Call Toll Free: 1-800-547-7004

Free shipping on all pre-paid orders

Name _____
Address _____
City _____ State_____ Zip_____
Telephone _____

CAUTION: Persons under medical care should consult their physicians before taking any medication. Use only as directed. Products not intended for repackaging or resale without State license. All products contain ephedrine sulfate or caffeine. NOTE: Products 1–4 are classified as bronchodilators.

TEAR GAS SECURITY PRODUCTS
More Protection Than You Can Get With Any Burglar Alarm

You Wouldn't Buy A Toothless Guard Dog . . .



Don't Trust An Alarm That Only Makes Noise.

The ever changing way of American life is bringing about conditions that make residential uses of tear gas a necessity.

FOR BURGLARY PROTECTION YOU CAN TRUST REVEL TECHNOLOGY

★ AT LAST, A SECURITY SYSTEM THAT CAN ACTUALLY STOP A BURGLAR!

★ LOW COST ANTIBURGLARY PROTECTION THAT STOPS THE CRIME!



DISTRIBUTED BY:

Sure Lock Homes

18777 East Valley Hwy.
Kent, WA 98032

1-(206)-251-6210

WE ACCEPT VISA MasterCard C.O.D.

Not legal in California

DIRECT FROM HOLLAND

THE SEED BANK

CATALOG



We have some of the most potent and resinous varieties in the world, including **NORTHERN LIGHTS, BIG BUD,** and **SKUNK#1.** Also, we now have super quality **RUDERALIS** hybrids, proven to be the earliest varieties known to mankind. Every grower can benefit from our collection.

● SEND YOUR NAME AND ADDRESS FOR OUR NEW

FREE

COLOR CATALOG, PRICE AND INFORMATION LIST TO:

THE SEED BANK
POSTBUS 5
6576ZA, Ooy (Gem. Ubb.)
THE NETHERLANDS

THE SEED BANK

SUPPLIER OF PREMIUM QUALITY CANNABIS SEEDS

ASKED

continued from page 63

Dear Ed,

I am growing in a well-ventilated box that measures 12″ deep × 30″ wide × 30″ high. Between my hydroponic unit which measures 10″ D × 30″ W × 12″ H and the fluorescent lights above, I have only 15½″ of growing space. I would like to flower the plants by the time they're 5″-6″ to leave enough room for the buds. How soon after germination can I put the plants into flowering? If immediately, can I use only bloom fertilizer? Also, how many plants can I have in this system?

—Eric the Red
Farmingdale, New York

Yes. You can put the plants into flowering as soon as they germinate. The seedlings will start indicating in two to three weeks. The plants will grow 8-12 inches tall and have buds of 1-3 grams. 60-70 seeds can be planted per square foot. Once the males are picked, there will be about 30 plants per square foot. If the seedlings are given two weeks of continuous light before forcing flowering, they will be about a foot tall at onset of flowering and grow an additional 1-1½ feet. Up to 30 seeds per square foot can be planted. After sexing, there should be from 5-15 plants per square foot.

I would start with a bloom fertilizer with added nitrogen (N).

Dear Ed,

Can a food dehydrator be used to dry buds?

—NORML Supporter
North Carolina

Most growers prefer to let their pot dry relatively slowly, over a period of three to seven days. This mellows the sharp taste and removes the green taste. The dehydrator can be used to remove some moisture from the material after it has wilted. They may be useful for processing large quantities.

Dear Ed,

What method of germination would you suggest for best results?

—The CARP
Northern Illinois University
De Kalb, Illinois

Plant the seeds in the medium in which they are to be grown. Keep the medium moist. Enclose the containers in a mini-greenhouse to keep the humidity high. Soil temperature should be maintained at about 72°. Heating cables can be used.

continued over

ION 2000

PLANT FOOD CONCENTRATES
ALL NATURAL TRACE MINERALS
Non-Staining — Salt & Sulfate Free

garDen color 20•20•20
flowER power 10•50•8
big Top 5•10•25•5 mg with Calcium

For Use In Soilless or Hydroponic Systems

pH compensating — increases C.E.C.
Fortified with E.B.B. (enzymatic buffer blenders)

1 Tsp. ..... (trial size) ..... makes 1 gallon $2.00
1 Pound ..... makes 100 gallons $14.00

—WE PAY POSTAGE!—

We have seed vigorizers

FTRW, INC.
Box 538
Moses Lake, WA 98837

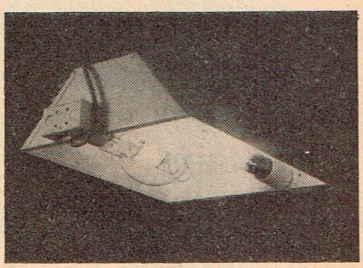
TOLL FREE:
1 (800) 345-3833
1 (509) 762-9895

GREENHOUSE formula
Constant Power Plant Foods

COPYRIGHT 1987

NEW!

The COMBINED power of METAL HALIDE and HIGH PRESSURE SODIUM in ONE LAMP!



Before, you had to make a choice. Now you can have it all! A 400 watt HPS and a 400 MH lamp, together in one HORIZONTAL reflector. A light meter reads more than one 1000 watt vertical halide, but the light uses only 80% the power. The remote ballast is switch-selectable. You can turn on either or both lamps. **$319.00**

GEOTECHNOLOGY
The high tech lighting company
303 Arden Ave.
Ben Lomond, CA 95005
(408) 336-2321 CA, (800) 346-2321 USA

Ask for our free catalog and we'll send a list of free technical literature.

Put your plants in the best light.

With our exclusive Mini-Might Grow Lights.

Our popular HPS150 uses a high pressure sodium lamp with an ideal color spectrum for budding and flowering. Costs only 15¢ a day to operate.

Our new MH175, with a metal halide lamp is perfect for all stages of plant growth. Only 18¢ a day to run.



SALE PRICE $99 EACH
Reg. $139
PLUS $5.00 shipping anywhere in USA.

See complete product listing inside front cover.

VISA MasterCard

ONE YEAR PARTS & LABOR GUARANTEE — 30 DAY MONEY BACK GUARANTEE — MOST ORDERS SHIPPED IN 24 HOURS — C.O.D. ORDERS WELCOME — NO DEPOSIT REQUIRED — QUANTITY PRICES AVAILABLE — CALL FOR FREE CATALOG.

Indoor Sun ESU INC

ENERGY SAVERS UNLIMITED, INC.
22138 SOUTH VERMONT AVE., - C, TORRANCE, CA 90502
Call Toll Free: **(800) 421-2994** (outside California)
(800) 538-3400 (in California)

NEW NEW NEW NEW

DUTCH DELIGHT

CIGARET ROLLING PAPERS

GUMMED

1½ million sold each week in Holland

For one box of 100 packages of 50 papers each 5000 TOTAL Send $ 50 cash to

DUTCH DELIGHT
P.O. BOX 510
LELYSTAD HOLLAND
(EU)

NO NONSENSE
MONEY BACK GUARANTEE
ALLOW 4 WEEKS DELIVERY

SINSE-WARE

Now keep your personal records without worry of detection on our computer software specifically designed for the grower.
We feature a dummy front to mislead the unknowing, and secret passwords that you determine! Only you will know how to access your program!

SAFE-FILE

First level: price, weight, and profit calculations, prints labels too.
Second level: stores personal and personnel records on a double entry ledger, know who, when, what type, weight, price, payment and balance.

Both levels protected with your passwords, and will self destruct upon intrusion! only 69.95

Yearly-Reporter

A yearly crop observation program for comparing and graphing yearly results, also using our secret entry technique! just 59.95

Confidentiality assured
We write custom programs too!
Your best sense will come from

SINSE-WARE

Box 771039 Wichita Ks. 67277
Please Specify: IBM-PC
Apple II-E or Commodore-64
Visa and Mastercard Welcomed
Phone: (316) 945-8700

DETECT PLANT SEX



Don't Waste Growing Space.
Get Rid of Male Plants.

GROW *ONLY* FEMALE PLANTS

Each Female Plant Detection Kit Contains Everything You Need to Detect the Sex of Ten Plants.

WORKS ON ALL PLANTS
- Just Starting or Full-Grown
- Outdoors or Indoors
- All Seasons

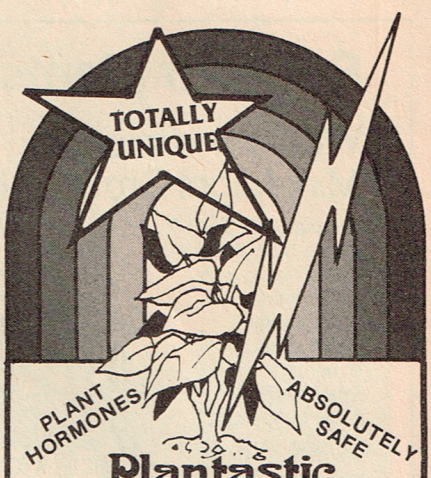
100% EFFECTIVE
SATISFACTION GUARANTEED OR YOUR MONEY BACK

RUSH ME

☐ 1 KIT $7.95
☐ 2 KITS $13.95
☐ 4 KITS $19.95
☐ 8 KITS $34.95
☐ 20 KITS $79.95
☐ 100 KITS $345.00

NAME
ADDRESS

Diesel Botanical Research and Study Group
P.O. Box 7665, Stanford, CA 94305
NOW AVAILABLE IN EUROPE, TOO.
Ask for one at your local shop.



Plantastic
PLANT PRODUCTS

UP TO 95% FEMALE PLANTS!

- **SENSA-SOAK:** Germinating fluid to promote feminization from the beginning **1.25 oz .. $9.95**
- **SENSA-SPRAY:** Foliar spray to increase female flowers **1 qt .. $9.95**
- **POWER BLOOM:** Shortens height, promotes lateral growth, more, bigger buds **2 qts .. $14.95**

Add $2 for shipping and handling.

Plantastic Plant Products
1442A Walnut St.
Berkeley, California 94709
or call TOLL FREE
Anytime (800) 227-1617 x453
(In Calif., (800) 772-3545 x453
Ask for a FREE BROCHURE today
Larger sizes available

ASKED

continued from previous page

Dear Ed,

Does it matter how damp the plants are at harvest time? I cut watering down during flowering and fan leaves droop. Is this OK? Should fan leaves be trimmed to make way for larger flowers?

—Grateful Grower
Abilene, Texas

Drooping fan leaves are a sign of heat stress. This slows down growth and lowers yield, although it may speed up ripening a bit. The fan leaves support bud growth by producing sugars used for tissue growth. Removing these leaves lowers the plant's ability to grow. Perhaps the plant can be opened up a bit by spreading its branches.

Dear Ed,

I have trouble drying and curing my crops. The skunky odor seems hard to retain and the buds usually are too brittle. How can I get better results for this important final step?

—J.T.
California

Cultivators harvesting a small crop have trouble retaining the humidity in the curing area that buds need for a slow cure and dry, which helps retain some moisture and odor. If there are only a few ounces to cure, a cardboard box can be set up to serve as a drying area. In dry climates, even larger growers may face too dry an atmosphere. Closing off the space helps increase humidity. A humidifier and some ventilation has also been used.

Dear Ed,

If I refrigerate my cannabis seeds, will it be detrimental to their storage life? Are there any other processes besides refrigeration through which storage life could be increased?

—Crystal Palace
Ohio

Yes. Refrigerating your seeds in a tightly closed container with a moisture-absorbing gel will prolong their life. Another procedure which will help is dusting the seeds with a fungicide. Seeds can also be frozen for long-term storage. First they should be dusted, then placed in a container with a moisture-absorbing gel. Then the container should be tightly sealed. Some of the seeds may die from the freezing process, but the rest will be preserved almost indefinitely. Each time seeds are thawed and refrozen, a portion of them dies.

Dear Ed,

Most of the grow info seems to be produced by people in cooler climates (Washington, Oregon, and northern California) so seldom is air-conditioning mentioned. If you want to produce truly bad-assed killer pot, you've got to effectively control the temperature, whether that's growing in winter only or getting the room air-conditioner needed to hold the temperature down. Excessive heat, including heat generated by lamps, kills your chances of a good yeld. Sure, you can grow pot at 90°, but with all the heat stress, there's not much energy left for photosynthesis or growth.

—BUDDAH, Holland Seed Grower
Dallas, Texas

Thanks for the tip, Buddah. It's true: Plants function best in the high 60°s to low 70°s. Higher and lower temperatures reduce yield. An air-conditioner can be used to lower the temperature. Most come with thermostats built in. Others can be hooked up to a thermostat.

Dear Ed,

Thirty days is a long time to leave a garden unattended, but if D.F. of Kentucky ("Ask Ed," April'87) has no other choice, there is certainly one thing that is mandatory: a Ground Fault Indicator. This device will trip even when a circuit breaker won't if an electrical system problem develops. Actually, a GFI is a good idea for any area where electricity and water are present. Granted, until reset the power is off, but that is a damn sight better than returning to a burned-down house and legal charges for growing pot the fire department found.

—E.M.E.
Tucson, Arizona

Dear Ed,

How can I collect and store pollen for use for fertilizing females later on?

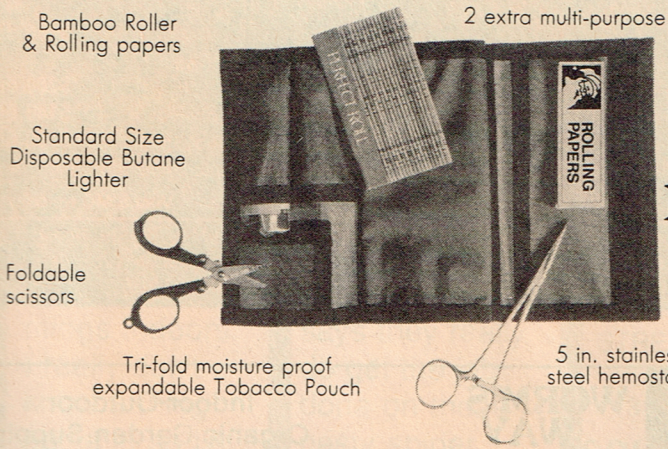
—Johnny Potseed
Atlanta, Georgia

Before the buds open, remove the branches with flower shoots to a space with no drafts. Place the branches sideways, so that they are lying horizontally on sheets of clean paper. Let the flowers open and release the pollen. Most of it should fall on the papers. Collect the pollen and place it in a glassine envelope. Place the envelope in an air-tight container with a mositure-absorbing gel. Place in a cool dark place such as the vegetable crisper section of the refrigerator if the pollen is being stored for up to two weeks. For longer periods of time, place the container in the freezer. Use the pollen as soon as it is removed.

continued over

"THE SMOKER'S POUCH"

It's All Together. A Place for Everything and Everything in its Place



"The Smoker's Pouch" is a strong, durable nylon carrying case with double stitched seams and a moisture proof lining designed to hold and keep your favorite tobacco fresh and readily available. Looks like a regular wallet or eyeglass case.

3x6 inches when folded closed, this pouch fits in your pocket. It comes with a 2x2 inch belt loop made of velcro so it may be worn personally or taken off and attached to any imaginable place you might want. Plus two extra multi-purpose pockets.

Colors come in black, red, green, or dark blue. Specify Color and Quantity

ONLY $14.95

Send Check or Money Order to Ideas-R-Us:
P.O. Box 689, Seabrook, N.H. 03874

Name _____
Address _____ State _____ Zip _____
MasterCharge or Visa Account No. _____ Exp. Date _____
Signature _____

(Shipping included: add $1.00 overseas. Allow 6-8 weeks delivery) Dealer Inquiries Welcome
If not completely satisfied return within 30 days after delivery. FULL MONEY BACK GAURANTEE

WHY BUY FROM US?

NEW PRODUCT ANNOUNCEMENT
THE FLYING M LIGHTING SYSTEMS

The Facts Speak for Themselves

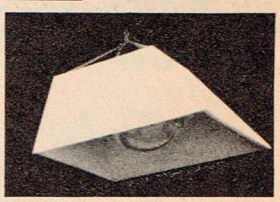
Fact: 3 feet under a typical 4 foot round reflector hanging a metal halide lamp vertically, a GE light meter reads 1400 foot-candles.

Fact: With our standard **HORIZONTAL REFLECTOR,** that reading jumps to 2000 foot-candles— **A 42% IMPROVEMENT.**

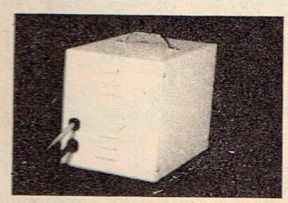
Fact: With the **NEW FLYING M REFLECTOR** that reading improves to 2400 foot-candles —**A 72% IMPROVEMENT!**

Fact: All readings are **EVEN HIGHER** using the high pressure sodium lamp.

Fact: Horizontal reflectors take up **LESS ROOM OVERHEAD.** They can be **MOUNTED IN CORNERS** They can be used for **SIDE LIGHTING.**



THE FLYING M HORIZONTAL REFLECTOR



Low noise ballast, using **ISO DAMP** to **KEEP IT QUIET.**

PRICES

	Standard 1000w	FLYING M	400 watt
HALIDE SYSTEM	$198	$259	$138
HP SODIUM	264	310	198

PRODUCTS:
- HID LAMPS
- LIGHT MOVERS
- ROCKWOOL HYDROPONICS
- CO_2 SYSTEMS
- NUTRIENTS
- NEGATIVE ION GENERATORS
- BOOKS
- FREE TECHNICAL INFORMATION

Make **EFFICIENT USE** of all that power you are using. **BUY** the Standard or the **FLYING M HORIZONTAL LIGHTING SYSTEM.** You **CAN'T LOSE** with our **MONEY BACK** guarantee.

Write **NOW** for a **FREE** catalog, and we will include a list of **FREE TECHNICAL PUBLICATIONS.**

VISA MasterCard

ONE YEAR PARTS & LABOR GUARANTEE— 30 DAY MONEY BACK GUARANTEE—MOST ORDERS SHIPPED IN 24 HOURS—C.O.D. ORDERS WELCOME—NO DEPOSIT REQUIRED —QUANTITY PRICES AVAILABLE

GEOTECHNOLOGY

The "high tech" lighting company
303 ARDEN AVE, BEN LOMOND, CA 95005

TOLL FREE Outside of California (800) 346-2321
Within California call (408) 336-2321

12 years in business manufacturing HID lighting systems.

Attention Indoor Growers!
The Real Best Deal On Super Halide & Sodium Systems

- All systems are professionally wired with safety and hazard free use in mind.
- Lowest noise ballasts available anywhere.
- All systems include your choice of 48" metal reflector or 18" porcelain reflector.
- Two year guarantee on all ballasts.
- All bulbs guaranteed.
- All Hallide 1000 Systems are MS 1000 Super Lamps. (125,000 LU)
- All systems come assembled with your choice of hoods.
- MS 1000 Watt Super Halide System **$185.00**
- 1000 Watt High Pressure Sodium **$260.00**
- 400 Watt Halide System **$140.00**
- 400 Watt Sodium System **$180.00**
- We carry a complete line of growing needs.

Visa & MC welcome

Please send for our price list and flyer on our MAXIMIZER CO^2 SYSTEM. Shipped C.O.D.
To order send money order or certified check to: C.O.D.'s accepted with 20% deposit.
Emerald City Halide North, 8016 15th Ave. NE, Seattle, WA 98115 206-527-1035



WORM'S WAY

Indoor-Outdoor
Organic Garden Supply

AUTHORIZED RETAIL CENTER
FOR APPLIED HYDROPONICS PRODUCTS

STORE SALES ONLY

- Hydrolite® 1000W & 400W Systems
- HPS 1000W & 400W Systems
- Sun Circle®
- Solar Shuttle®
- Hydrofarm® Systems
- CO_2 Injection Kits

RETAIL AND MAIL ORDER

- Water Chain® Drip Irrigation
- Rockwool & necessities
- Timers — Fans — Mylar
- Worm Castings — Bat Guano
- Super Tea — Budswel
- Eco-Grow — Dyna-Gro

BOOKS & MUCH, MUCH MORE!

MasterCard **CALL, WRITE OR VISIT FOR A FREE CATALOG** VISA

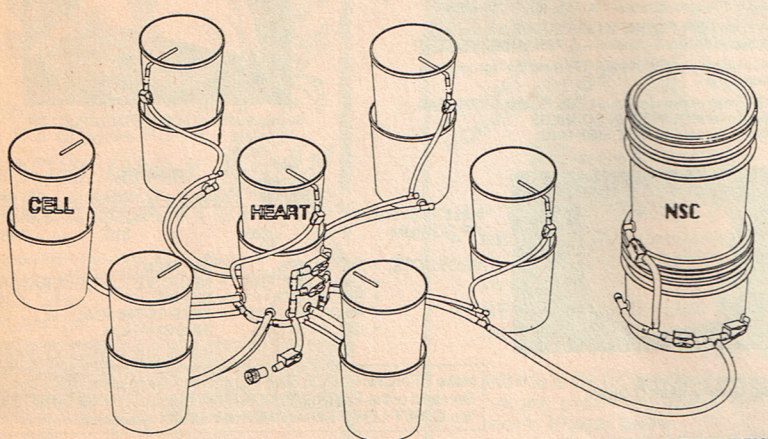
4620 South State Road 446 • Bloomington, IN 47401 • (812) 837-9901

LIVING SYSTEM™

By
LIGHT MANUFACTURING COMPANY
1634 S.E. Brooklyn
Portland, OR 97202

30 DAY MONEY BACK GUARANTEE

CALL NOW
(503)231-1582
FOR FREE CATALOG



CELL
INDIVIDUAL AND INTERCHANGEABLE GROWTH MODULES. SHUT-OFF CLAMP W/EASY DISCONNECT.

HEART
ADD OVER 60 CELLS, ADJUSTABLE NUTRIENT FLOW AUTOMATIC FLUSH AND DRAIN TOTAL NUTRIENT RECIRCULATION.

NUTRIENT SUPPLY CENTER
5 GALLON MIXING RESERVOIR NUTRIENT LEVEL REGULATION RESERVOIR EXPANSION PORT.

"THIS HYDROPONIC UNIT IS ONE OF THE MOST VERSITILE AND PRODUCTIVE ON THE MARKET"--JORGE CERVANTES

A S K E D

continued from previous page

Dear Ed,

I've tried to find an Isomerizer for months and can't locate one anywhere.

Obviously I need to keep my inquiries discreet but am rapidly approaching the point where an ad in the Chicago papers seems the only feasible alternative.

Please save me from this insanity and give me directions on where I can get an ISO II.

—XOXOXO
Mishawaka, Indiana

P.S. I always watched Mr. Wizard when I was a kid and will dedicate my efforts in his name.

I do not know what to tell you. My ISO II on display at the Hash Museum in Amsterdam was seized by the police and I am still trying to get it back.

Dear Ed,

My growing area is also occupied by my furnace which burns natural gas. Any time I am in the area for any period of time, I get dizzy and tired. Can the fumes hurt the plants?

I also have a closet set up away from the furnace with several plants of the same age as the ones next to the furnace, but surprisingly, the ones subjected to the fumes have grown faster and longer than the ones in the closet. Might the furnace emit CO_2?

—"There's a Bud in My Closet"
New York, New York

The furnace is emitting CO_2 as evidenced by the plants' growth. However, you are breathing poisonous levels of CO_2 and possibly carbon monoxide (CO) when you are in the area. CO is an extremely poisonous, odorless gas. Before going into the space, make sure that it is ventilated with fresh air. It should remain ventilated with fresh air as long as you are working in it.

Apparently, the plants like the atmosphere, so it need not be modified for them.

Dear Ed,

I've read that the optimum CO_2 level is 1500 PPM. In my S.S.S.C. catalog it states that the CO_2 level should not exceed 700 PPM. Who's right?

—CO_2 Confused
Manvel, Texas

S.S.S.C.'s info is based on a lower light level than is found in many MH or HPS illuminated gardens. For gardens with lower light level, lower levels of CO_2 are required.

Dear Ed,

I have been cloning and growing the same *indicas* for a little over two years. The last two generations of clones I have taken have been taking much longer to root than normal and about 60 days to finish their floral cycle. Before, my plants would root in about ten days and finish their floral cycle in no more than 45 days. Could my eighth generation of cloned plants be losing their vigor and fast growth because I have made so many generations of clones? What solution do you suggest?

—Drummer
Stockton, California

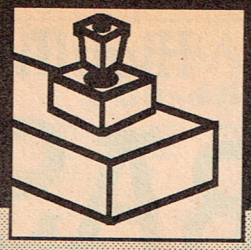
Could be that the clones are losing vigor. One way to prevent this is to use a mother plant as a clone generator. That is, dedicate specific plants to clone generation and keep them alive for a long time. Then all the clones are from the same generation rather than from subsequent generations, even though they represent subsequent crops.

I have been very disturbed in following the "Top 100" to find that the "Ask Ed" column has not made it onto the list. I have stayed up nights wondering where I have failed. For instance in the July issue, President Reagan made #11, Ed Hassle #31, Howard Stern #29, Tie Dyes #40, Partyin' til' you Puke #47, Nuclear Energy #64, and Grits #66. Yet after months of the "Top 40" and "Top 100," the "Ask Ed" column has yet to appear on the list.

My co-columnist at HIGH TIMES, Ed Hassle, had to threaten writer's block in order to get the magazine to do a "Dead" issue. No, I am not going that far: I will continue to write. But my head hangs low as I return to my home each night after hours of intensive, dangerous research, knowing that the "Ask Ed" column is *not* on the list. It's up to you! Do you like "Ask Ed" enough to put it on the "Top 100"?—E.R.

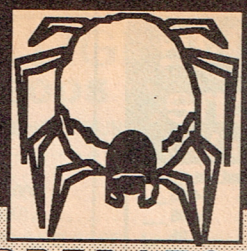
● *I welcome comments, tips and questions regarding marijuana and marijuana cultivation. Send all letters to Ask Ed,* HIGH TIMES, *211 E. 43rd St., New York, NY 10017. Also send entries for the Bud, Plant and Garden of the Month Contests. All correspondents whose letters or photos are used will receive a free copy of my book,* ***Marijuana Growers Handbook, Indoor/Greenhouse Edition.***

● *By submitting your photograph(s), you hereby grant permission to publisher to reprint the photograph(s) in HIGH TIMES magazine as well as any other Trans-High Corporation publications.*



ROCK WOOL

Rockwool is this incredible stuff for growing things indoors. I really don't know a thing about it, so I'll let David tell you what he knows.



PREDATOR MITES

These things give me the creeps, but David says they really do get the job done on those pesty spider mites, without having to use chemicals.



INDOOR GARDEN SUPPLY

NORTH STORE
108 N. BARRINGTON
STREAMWOOD, IL
60107
(312) 289-4545

SOUTH STORE
599 WILLIAMS ST.
THORNTON, IL.
(312) 877-1616

ALTERNATIVE
Garden Supply Inc.
The Predator Mite People
Call for a free brochure
(800)444-BUDS
(2837)

CHICAGO
INDOOR GARDEN SUPPLY
Store & phone hours M-Sat 10-7:00
See pages 8 & 9 for a list of some of our HYDROFARM products.

#1
Bestseller

Indoor Marijuana Horticulture
by Jorge Cervantes
autographed by the author



The book all indoor growers must have. It is the most complete, authoritative, up-to-date book on indoor marijuana cultivation ever!
This 288 page edition is profusely illustrated with over 250 photographs, drawings and graphs. Packed full of information on grow rooms, grow lamps, electricity, container gardening, water, fertilizer, hydroponics, air, CO_2, bugs, fungi, cloning, harvesting, breeding and it has a garden calendar, index, and glossary...$14.95 + $3 shipping = $17.95 Total

Interport, P.O. Box 02009, Portland, OR 97202
CALL TOLL FREE 1-800-547-9755, in Oregon 1-800-826-6134
for VISA, MC, or C.O.D.

PSYCHOACTIVE Books by Phone

24hrs/day UPS-COD Visa/MC

We specialize in selling books, offer largest selection and best service.

MARIJ. HYDROPONICS high tech water culture	14.95___
SECRET GARDEN MARIJ. useful new info	14.95___
CULTIVATORS HBK of MARIJ. revised classic	14.95___
INDOOR MARIJ. HORTICULTURE indr high tech	14.95___
DELUXE MARIJ. GROW GD. the best grow book	14.95___
SPIRAL DLX MJ. GROW GD. lays flat & lasts	19.95___
MARIJUANA BOTANY definitive guide to mj plant	14.95___
SINSEMILLA TECHNIQUE new printing	14.95___
MARIJUANA ALERT dangers of smoking pot	10.95___
PEOPLES PHARMACY guide to medical drugs	5.95___
MARIJUANA MOONSHINE VIDEO vhs grow class	39.95___
MARIJ. GROWERS Hbk indr grnhs edn /Rosenthal	16.95___
ED ROSENTHAL'S MJ GROWING TIPS new book	12.95___
MARIJ. QUESTION? ASK ED pics, q&a, advice	16.95___
MARIJUANA YOUR LEGAL RIGHTS legal guide	12.95___
THE MARIJUANA QUESTION hazards of pot	24.95___
HASHISH lavish oversize pictorial by Suomi	35.00___
MOKSHA psychedelic writing of A. Huxley	7.95___
MUSHROOM CULTIVATOR best 'shroom guide	24.95___
SHAMAN WOMAN women writing on drugs	12.95___
DRUG ANTIQUES guide to drug collectibles	12.95___
DESIGNER DRUGS ecstacy,crack, china white,etc	19.95___
THE CULTIVATOR pot field romance	6.95___
INDOOR/OUTDOOR MJ GROWERS GD intro bk	5.95___
MARIJUANA GROWER'S GD. audio cassette tape	7.95___
MARIJUANA POTENCY up potency, hashmaking	10.95___
SINSEMILLA marijuana flowers, best color photos	19.95___
MARIJUANA BEER how HiBrew is made	9.95___
MARIJUANA AS MEDICINE medical use of pot	8.95___
MARIJUANA MEDICAL PAPERS classics	19.95___
PRIMO PLANT mountain girl shows how to do it	4.95___
CANNABIS ALCHEMYisomerisers, hash oil	5.95___
SEX DRUGS & APHRODISIACS sexual highs	4.95___
FROM CHOCOLATE TO MORPHINE A. Weil	8.95___
DIARY OF A DRUG FIEND by Aleister Crowley	8.95___
PSYCHEDELICS ENCYCLOPEDIA definitive	12.95___
LSD MY PROBLEM CHILD by A. Hoffmann	7.95___
PSYCHEDELIC CHEMISTRY authoritative	14.95___
MAGIC MUSHROOM HBK pocket field guide	9.95___
PSYLOCYBE MUSHROOMS & their allies	12.95___
COCAINE HANDBOOK best essential reference	24.95___
COCAINE PAPERS by Sigmund Freud	8.95___
COCAINE CONSUMER HANDBOOK testing	9.95___
800-COCAINE professionals help users quit	4.95___
CASH CROP Humbolt County saga of pot fields	8.00___
COCAINE CONSUMER Cassette tape of classic bk	7.95___
GETTING OFF COCAINE natural way to quit coke	8.95___
PLEASURES OF COCAINE bk may save your life	5.95___
WEED adventures of a dope smuggler, mexico	9.95___
THE WAY OF HERBS wonderful guide to healing	12.95___
UNDERGROUND COMIX history w/ 1000+illstrns	17.95___

select books above and write book price SUBTOTAL$ _____
FREE USA UPS shipping ON ORDERS OVER $35.00
otherwise add __$3.00/book for USA shipping,
Canada postage add __$5/order, other Foreign postage add __$5/bk
COD fee__$3 Card fee__$2 POBox (no CODs) fee__$2
California residents add 7% sales tax
__CHK or __MO for Books & fees TOTAL$ _____

Make check payable to Books-by-Phone (personal checks held to clear)
credit card: MC__ Visa__ Exp date _____

card #: _____

Name_____

Address _____

City _____ State _____ ZIP _____

I am over 21 (sign) _____

Price and availability subject to change without notice Drug education books are for sale to ADULTS ONLY to provide information in accord with 1st Ammendment. Offer void where prohibited by law. No warranties are made, use is not advocated. Consult your physician.

Order by phone MC/Visa or UPS-COD
800/858-2665natl 800/992-2665calif
415/268-0869sf 415/548-2124info
operators take orders, give no info abt bks

POBOX 522 Berkeley, CA 94701
call or write for our free catalog

High Times Salute to BASEBALL



continued from page 61

ballplayer, **Babe Ruth**, had outplayed and outdrank all players before and after his time. As beer expert Will Anderson tells the story: "In the August heat of 1948, at Babe Ruth's funeral, former teammate *Jumping Joe Dugan* remarked to pitcher *Waite Hoyt*, 'I'd give a hundred dollars for a beer.' Replied Hoyt, 'So would the Babe.' "

Prohibition attitudes died hard though. Bill James describes an incident in 1945, of Brooklyn Dodger general manager *Branch Rickey*'s horror upon learning that manager *Leo Durocher* prescribed a shot of brandy before each game to cure pitcher *Tom Seats*' unsteady nerves. Aghast at the notion of a ballplayer under the influence, Rickey had Seats banned from baseball for life.

A Wholesome, Family Game!

Rickey knew the beery ways of Durocher and his teams, but he never attended a Sunday game in his life. Beer sales and Sunday baseball were controversial as early as 1881, when the Cincinnati Reds were expelled from the National League for playing on Sunday and selling beer. In 1882 a competing league, the American Association, was founded in response to the Sunday baseball and beer ban. While the National League charged fifty cents admission with no beer and no games on Sundays, the American Association had beer, Sunday games, and twenty-five cent tickets.

In the 1880s, ballplayers were often arrested and tried for violating the Sabbath. *Charles Ebbetts*' Brooklyn Dodgers evaded the blue laws in 1902 by not charging admission to the game. The New York Highlanders, later known as the *Yankees*, handed out cards at a Sunday exhibition game asking fans to refrain from cheering, in order to avoid violation of the Sunday ban on baseball. A reverend at a Fort Wayne semiprofessional game in 1898, who was compiling a list of all Sabbath violators, was mobbed by unruly fans and forced to surrender his pad and pencil. Such resistance paid off, as baseball on Sundays did become acceptable, although Sunday baseball bans continued until 1934 in Philadelphia.

Rebellion For The Hell Of It

Resistance to authority has always been a part of baseball. Players have ignored managers' disciplinary codes ever since the first professional teams were organized. A typical players' reaction came from the 1971 Houston Astros, who were angered by manager *Harry Walker*'s disciplinary code. Baseball historian *David Voigt* tells how they would loudly sing this verse in response:

"Now Harry Walker is the one that manages this crew.
He doesn't like it when we drink and fight and smoke and screw;
But when we win our games each day,
Then what the fuck can Harry say.
It makes a fellow proud to be an Astro."

While the 1971 Astros taunted their manager, players began to fight against the idiotic reserve clause, which resulted in free agency, and the right to play on whatever team they wanted after six years in the major leagues. The scent of marijuana and the air of revolt was in the streets, the ballpark stands, and the players' hotel rooms.

Now, in the late 1980s, we live in an age of repression. The war on drugs, the crackdown on beer sales at the ballpark, the team owners' refusal to sign free agents, and the persecution of young athletes for recreational drug use all represent the backlash against the freedoms fought for and enjoyed by baseball fans and players. As you watch this year's World Series, celebrate an American tradition—your right to party. *But beware of the new prohibitionists.* ●

POTTING SOIL

continued from page 69

Container capacity, which is an estimate of the upper limit of available moisture of soil in a container, was moderately high to high for each of the mixes evaluated. This finding suggests that each product could hold an adequate amount of moisture.

With the exception of rates for mix 5, all of the infiltration rates calculated by these procedures were extremely high. It was observed, however, that potting mixes 1, 6, 7, 8, 10, and 15 were considerably less permeable than the others and that mix 5 had very poor relative infiltration.

The percentage of water significantly affected the handling of mix 7. This mix, which was sold by weight, was needlessly high in water, and was much more difficult to handle out of the package.

In addition, initial wetting of the mix was a problem in products 9, 10, and 11, which required several irrigations to become thoroughly wet.

In this test, potting soil mixes with fir bark or forest materials as the primary ingredients more consistently approached or exceeded suggested minimum standards of the essential physical qualities than did those with other organic materials as primary ingredients. This finding does not suggest a cause-and-effect relationship, however, since these tendencies were not observed for all products evaluated. In fact, most of the products demonstrated at least satisfactory overall physical properties with the possible exceptions of mixes 5, 6, 7, 8, 10, and 15. The results do suggest that consumers may have some confidence that a high percentage of bark or forest materials in a given mix is an indication of satisfactory physical characteristics.

CHEMICAL PROPERTIES

Samples of each mix purchased were analyzed for pH, soluble salts, percent organic matter, percent water, and concentrations of important nutrients. All measurements were by the standard methods used by the University of California Cooperative Extension Soil, Water, and Plant Analysis Laboratory.

The range in chemical properties was quite wide. Unlike results of the physical analysis, there did not appear to be any link between the primary ingredients and the respective chemical properties in the potting soils. The only predictable link was that of the sewage sludge and a correspondingly high salt content of mix 8, since processed sewage sludge often contains concentrated salts.

continued on page 80

WHOLESALE LIGHT SUPPLIERS

509-456-8005 *"Don't Pay Retail"*

BASIC KITS (NO REFLECTOR OR ENCLOSURE)

1000 HALIDE (MS 1000)	$150.00
400 HALIDE (MS 400)	$105.00
1000 HIGH PRESSURE SODIUM (LU 1000)	$195.00
400 HIGH PRESSURE SODIUM (LU 400)	$165.00

EXPANDED KITS (48" REFLECTOR AND STEEL ENCLOSURE)

1000 HALIDE (MS 1000)	$175.00
400 HALIDE (MS 400)	$130.00
1000 HIGH PRESSURE SODIUM (LU 1000)	$225.00
400 HIGH PRESSURE SODIUM (LU 400)	$190.00

C.O.D's SHIPPED *DEALER INQUIRIES WELCOME*

VISA AND MASTER CHARGE *CALL COLLECT FOR LIGHTS*

CARBON DIOXIDE SYSTEMS COMPLETE	$150.00
AIR PURIFIERS - ELIMINATES SKUNK ODOR (150 cfm)	$109.00

BOX 3361, SPOKANE, WA 99220-3361 *Free Catalogue*

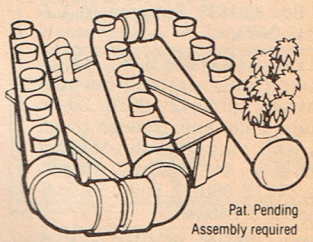
INCREASE YOUR HARVEST 4 TO 8 TIMES!

Break free from jerry-rigged containers that cram a few plants in a large area. With space efficient technology, the **GOOD BUDDY MODULAR**, at only 31×47, effortlessly grows between 15 to 25 adult plants! Guaranteed! A *real* sea of green.

All state of the art growing methods, including Perpetual Harvest, are compatible with the Buddy System. Basing plants in 10 oz. drinking cups allows: • Quick and easy transfer, re-arrange and harvest of *individual* plants, anytime - no connections • Freedom from changing bulky, pest harboring, grow media • Independence from special containers.

No more rootbound screens and tubes that clog and flood. Forget unstable pH, excessive humidity, and other problems from grow media, and open drip or flow schemes. End nightmares from internal sprays.

Just set your plants or seeds into your **GOOD BUDDY MOD.** Roots are directly fed and aerated for 10% quicker growth. The most advanced, maintenance free system is also the simplest! Call us for *all* your growing needs. VISA/M.C.



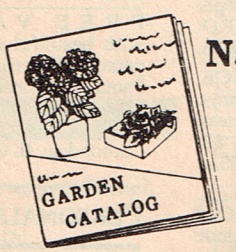
Pat. Pending
Assembly required

Showroom: Foothill Hydroponics
10705 Burbank, L.A., CA (818) 760-0688
Higher Yield, 712 Wilshire Blvd., Suite 12
Santa Monica, CA 90401 (213) 394-6777

Request your *free* booklet, *Guide to Hydroponic Systems.*

Our Customers Say That We Have:
The Largest Selection
The Quickest Service
The Nicest Catalog
The Best Prices

We Sell More Than Just:
Halides & Sodiums
Natural & Commercial:
Pest Controls, Fertilizers
Growing Mediums
Climate Controls:
Thermostats, Reostats
Fans & Blowers
Watering Systems
CO2 Systems



...over 30 pages of values !



High Light Enterprises
Call For Order or Free Catalog
1-800-342-1981
Oregon (503) 342-1981 10 a.m. - 6 p.m. PST
Eugene, OR Visa or MasterCard Accepted

CLASSIFIEDS

Growing Aids

EXOTIC MUSHROOM Spores and Books. Catalog $2. FS, PO Box 420435, Sacramento, CA 95842-0435.

FREE GROWER'S BROchure (tools, lights and pest controls) 1(800)423-0876. 20-lb. Mantis Tiller cuts through tough soil, $307. Vacuum Seal-A-Meal for fresh stash, $47. Postpaid. Alternative, 3439 E. 86th St., Suite 259, Indianapolis, IN 46240.

5,000 OPIUM POPPY SEEDS with instructions—$5 ●Two by three inch ziplock bags—50 for $3.50 ●Three by five inch ziplocks—50 for $4.50 ●Mannitol ½-lb.—$7.50 ●Inositol ½-lb.—$15 ●Lactose ½-lb.—$25 ●We pay postage. You get it quick and unmarked. Faunas Health, PO Box 1236, Lawrence, KS 66044-8236. Satisfaction guaranteed!!

AMMONIUM NITRATE Triple growth, triple potency. No organic can compare. $14.95/lb. to E. Peter, PO Box 11368, Indianapolis, IN 46201.

PARADISE HYDROPONICS introduces the hottest "how-to" video on the market. This easy-to-follow, step-by-step instruction tape will show you how to set up your indoor garden in anything from a closet to a warehouse. Let the boys show you how! Available from: Paradise Hydroponics, 306 West Harris St., Eureka, CA 95501. Call toll free: (800) 332-GROW; in California call: (707) 445-5720.

HAWAIIAN DELIGHTS: Baby or Regular Hawaiian Wood Rose Seeds for $20.00; One Hawaiian Panaeolus Cyanescens Spore Print for $15.00; One Bag of Hawaiian Sterilized Top Soil or Compost for $15.00; Betel Nuts $10.00; Kava-Kava $20.00; Imported Poppy Seeds $10.00; One Dozen Anthurium Flowers for your Lover, delivered $30.00. Island Spore Co., PO Box 8055, Honolulu, Hawaii 96830.

WHOLESALE Rockwool Slabs—$5.95 ea. in case lots of 12. Shipping included in U.S.A. except Alaska or Hawaii. (616) 349-8566. Hrs.: 10 A.M.-6 P.M., Tues.-Sat. C.O.D., Visa-Mastercard.

GROWERS SUPPLIES Confidential. Drippers, lights, fertilizers, timers, much more. For more information contact Full Circle, PO Box 6, Redway, CA 95560. (707) 923-3988.

EARTHWORM CASTING 10 lbs. $9.95 postage paid. Cape Cod Worm Farm, 30 Center Ave., Buzzards Bay, MA 02532. (617) 759-5664

MUSHROOM RESOURCE Guide; $15. Information $1. Fungi Supplies, PO Box 1374, C.H., CA 95611-1374.

EAST COAST HYDROPONICS now open! Lights and organic gardening supplies for all your growing needs. Come see our new showroom or write for a free catalog. 432 Castleton Ave., S.I., NY 10301. Or call East Coast Hydroponics Nationwide: (800) 255-0121 ●NY—(718) 727-9300.

Merchandise

IS IT TRUE YOU CAN BUY Jeeps for $44 through the U.S. government? Get the facts today! Call (312) 742-1142, ext. 4648.

KNOSE CANDY-WRITE SLS Ent. P.O. Box 10223, Riviera Beach, FL 33404.

UNDERCOVER HIPPIES. Tie-Dyed T-shirts, $7.67; Underwear, $5.50. Available in Orange Blotter, Red or Purple Microdot. Send to Pat Bercik, P.O. Box 191, Harrison City, PA 15636.

COUNTERSURVEILLANCE, Security? 52 products: alarms, bulletproof, detectors to wireless, voice scramblers! Catalog, $2: SPYPRO-041TH, P.O. Box 45521, Seattle, WA 98145.

SPIDER MITE CONTROL! Send for free information. Include self-addressed envelope. O. Solutions, 5825 Telegraph Avenue, #62, Oakland, CA 94609.

ROLL YOUR OWN cigarettes? Use Filters—safer, healthier. Sample and instructions—$5.00. JCSCO, Box 901-T, Arlington, MA 02174.

SMOKER'S CATALOG $2.00. Pipes, waterpipes, much more! Tobacco World, P.O. Box 74946, Oklahoma City, OK 73147 (U.S. money only).

13 X-RATED PUZZLES—$3 to: Romeo Ramirez, P.O. Box 10243, Atlanta, GA 30319.

MINI PIPE DEAL—1/$5 or 3/$10. Genuine rosewood smoking pipes. Specify xs/sm/m. Tobacco World, P.O. Box 74946, Oklahoma City, OK 73147.

SUPERSCENT Free samples to first 100 callers. P.D.C. (513) 851-5999.

Instructions

MOONSHINE VIDEO How they made the brew! Quality color; 30 minutes, VHS/Beta, $19.95. Check/M.O. only. CSV, P.O. Box 3135, Reston, VA 22091.

UNDERGROUND Connections! $2 cash. Occupant, Box 242, Warren, Michigan 48090.

Miscellaneous

FOREIGN PASSPORTS 21 countries. Loopholes. "Back doors." Latest opportunities, possibilities. Free details. EDEN PRESS, Box 8410-PP, Fountain Valley, CA 92728.

TERM PAPERS—15,278 available! 306-page catalog, rush $2. Research, 11322 Idaho, #206HZ, Los Angeles, CA 90025. (213) 477-8226.

FREE VACATION with beautiful girls in a tropical paradise that can make you rich. Fantastic information and 4 color photos of paradise, $5. Wildworld Productions, 200 Friedline #2, Carbondale, IL 62901.

Personals

WITCHCRAFT MOTHER Nature's own high, power and serenity. Gavin and Yvonne, Box 1502-H, New Bern NC 28560.

Novelties

HUMBOLDT SEED—$1.00 each seed. Purple Skunk. H.C.W.C., PO Box 386, Garberville, CA 95440.

Behind Bars

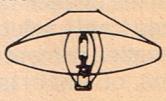
GOOD LOOKING INCARCERated W/M, 5'11", 180 lbs., brown hair & eyes, 36. Up for parole in December '87. Seeking a lady 20 to 38 for correspondence and possible visits for now and life in The Fast Lane after the parole is behind me. Please write to: Wayman Harris, PO Box 217, Yancyville, NC 27379.

W/M, INMATE, 29, 5'9½", 180 lbs, in great shape, brownish-blond hair, blue eyes. Looking for a sincere lady friend for friendship and correspondence. Interests include writing poetry & songs, playing guitar, country music, many hobbies. Very athletic, well-educated. Build homes on the streets. Sam DeLozier, C65012, C.M.C. East, PO Box 8101, #6155x, San Luis Obispo, CA 93409.

W/M, AGE 25, 5'5", 145 LBS., brown/brown. Soon to be released and on my last stretch. Would like any woman to write that feels like I do.This can turn into anything, cause I'm sure looking for the "right" woman for me. Write: Jimmie Smith #18946, PO Box 30 (15-2J), Pendleton, Indiana 46064.

LONELY 34 YEAR OLD, white male in prison seeks sincere lady for pen pal. Write: James C. Miller, C85353, Rm. 3165X, PO Box 8101, San Luis Obispo, CA 93409-0001.

GROW RIGHT WITH HALIDE LIGHT



M A H

DIAMOND LITES
EAST COAST HALIDE &
HYDROPONIC DISTRIBUTOR
151 ALKIER ST. BRENTWOOD
N.Y. 11717 (516)231-9472

VISIT OUR SHOWROOM
MON–FRI 12-8
SAT 10-8



Copyright © 1983

SPORES & BOOKS

BOOK & SPORE CATALOG	$ 2.00
MUSHROOM RESOURCE GUIDE	$15.00
AMANITA MUSCARIA SPORES	$10.00
THE MUSHROOM CULTIVATOR	$24.95
PSYCHEDELIC CHEMISTRY	$14.95
MAGIC MUSHROOM HANDBOOK	$10.95
GROWING WILD MUSHROOMS	$ 5.95
PS. MUSHRMS & THEIR ALLIES	$12.95
ROTTEN WORLD OF FUNGUS-VHS	$34.50
MARIJUANA GROWING TIPS	$10.95
INDOOR MARIJ. HORTICULTURE	$14.95
MARIJUANA GROWERS GUIDE	$19.95
SINSEMILLA TECHNIQUE	$12.95
GROWING INDOORS	$ 8.95
THINK & GROW RICH-CASSETTE	$14.50

POSTAGE PAID! IMMEDIATE DELIVERY!
FS. P.O. BOX 420435
SACRAMENTO, CA 95842-0435

ROCKWOOL



THE GROWING MEDIUM

FOR A DESCRIPTIVE BROCHURE ON OUR COMPLETE LINE OF GARDEN SUPPLIES WRITE OR CALL:

FULL CIRCLE
P. O. BOX 6-H
REDWAY, CA 95560
(707) 923 3988



FREE CATALOG

B COMPLEX VITAMINS

1/2 OZ ~~$15~~ $8.95
2 OZ ~~$40~~ $24.95

MANY OTHER SIZES & ITEMS
PREPAYMENT = FREE FREIGHT
MONEY ORDER SHIP SAME DAY
CODS ADD $2.00

NATURE SCIENCE
P.O. BOX 65
WOODLAND HILLS, CA 91364
(818) 704-8811

AT LAST!! A LEGAL HIGH!!

Puts a smile on your face and makes you feel good all over. It's *Laughing Gas*, singer-songwriter Chet Novicki's collection of outrageously funny rock, blues, and country songs. Includes: *Your Mother Fools Around, Grandpa Went to Jail for Growing Weed, Herpes, The Problem Drinker*, and eight other instant classics. Absolutely hilarious! Great for parties-a real icebreaker. Or play it on the way to work and arrive with a smile on your face. These studio recordings with full accompaniment sound great, with catchy, hum-along melodies and laugh-out-loud lyrics that are too hot for radio! Satisfaction guaranteed or your money back. Available on cassette only. Just $8.95 & $1.05 postage & handling. Send your $10.00 to:

TAKO-ICHI Records
Dept. M-4
P.O. Box 90181
Honolulu, HI 96835

All orders shipped 1st Class Mail. Money Orders shipped immediately. Personal checks must await bank clearance. Order now!

ROCKWOOL WHOLESALE

Hydroponic Metal Halide
Rockwool Fertilizer

Hrs. 10AM—6PM
Closed Monday

Growers Supply
680 Maple Hill Dr.
Kalamazoo, MI
49009
349-8566

BLANK PHOTO ID CARDS



Make laminated Photo IDs on any typewritter. All materials furnished for 5 IDs.
Good in All States and Canada
5 FREE BIRTH CERTIFICATES
Rush COD 1-904-396-1744 5 FOR $10
CARDINAL PUBLISHING, DEPT. B23
2071 Emerson, Box 5200 • Jacksonville, FL 32207

Microflame Super Cub Gas Torch



- HIGH QUALITY HEAT FOR ALL YOUR SMOKING NEEDS
- SMALL AND LIGHT ENOUGH TO FIT IN ANY POCKET

GET FREE SUPER CUB REFILL WITH PURCHASE
SEND MONEY ORDER FOR $10.99 + $2.00 P/H TO:
TAM ENTERPRISES
P.O. BOX 23973-FT. LAUD., FL 33307

GRAMMY SCALE SALE



All metal, w/case, weighs from 0-99 G. and ozs. $3 for one or $5 for two. Send address & payment to Tamarack Marketing, P.O. Box 434, Hoosick Falls, NY 12090. *We pay for shipping!*

— A HANDY ITEM —

The HIGH TIMES Classified Reaches Over 2 Million People Each Month. Whether Your Message is for Business or Pleasure, put it in HIGH TIMES for Maximum Results.

RATES

One time ad: $4.00/word

Discount for contracts:

Three consecutive ads	$3.75/word
Six consecutive ads	$3.50/word
Twelve consecutive ads	$3.25/word

CLASSIFIED DISPLAY

$125 per column inch
Column width is $1\frac{5}{8}$ inches.

Discount for contracts:

Three consecutive ads	$115/inch
Six consecutive ads	$105/inch
Twelve consecutive ads	$95/inch

All display ads must be delivered camera-ready.

TO ORDER

MINIMUM AD IS TEN WORDS
Post Office Box #'s and telephone #'s count as two words each.
All ads must be typewritten.
ALL ADVERTISING MUST BE FULLY PAID IN ADVANCE WITH CHECK OR MONEY ORDER, NO CASH.
Ad will appear 60 to 90 days after receipt.
All ads are accepted at the discretion of the Publisher.
No advertisements for chemicals, chemical supply houses, formulas, extraction methods or synthesis reports will be accepted.
Call for Advertising Acceptability Policy (212)-972-8484.
Mail to: HIGH TIMES Classified
211 East 43rd Street, New York, NY 10017
Please include a sample of your product or catalog with your ad, and your street address and phone number.

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39

Cost of Ad:
_____ words at _____ per word = _____ Total.
Payment must be enclosed with order.
(Check or money order only, please.)

Name _____

Address _____

City _____ State _____ Zip _____



ALSO AVAILABLE
S.S.S.C.'S
DUTCH HIGH TECH GROWERS GUIDE

* COLOR PICTURES
* EVERYTHING ABOUT **THE** GROWING MEDIUM OF THE FUTURE: **ROCKWOOL**
* NEW TIPS ON OUTDOORGROWING
* EVERYTHING ABOUT MAKING CUTTINGS
* INSTRUCTIONS TO ENABLE YOU TO OBTAIN AN INDOOR HARVEST OF 3-4 POUNDS OF DRIED BUDS PER 10 SQ. FT. PER YEAR

PRICE: **$5** + **$2** FOR SHIPPING AND HANDLING. CASH ONLY.

F R E E

THE MARIJUANA SEED CATALOG '87-'88

40 COLOR PICTURES

TOP QUALITY MARIJUANA SEEDS
INDICA'S, SATIVA'S AND HYBRIDS
U.S.-TOPSTRAINS AND EXOTICS

CAREFULLY BRED FOR INDOOR AND OUTDOOR GROWING

MARIJUANA SEED BREEDING AND PRODUCING IS OUR PROFESSION

SUPER SATIVA SEED CLUB



EXOTIC SEEDS FROM AMSTERDAM

☐ **YES!** PLEASE SEND ME A FREE COPY OF THE **THE MARIJUANA SEED CATALOG '87 - '88**
☐ ENCLOSED IS MY **$7 CASH** FOR A COPY OF S.S.S.C.'S **DUTCH HIGH TECH GROWERS GUIDE**

NAME .....
ADDRESS .....
TOWN .....
STATE/ZIP .....

SEND VIA AIRMAIL TO:
S.S.S.C. - POSTBUS 1942
1000 BX AMSTERDAM - HOLLAND
DISCRETION ASSURED.

A N E W A G E S E R V I C E

GROW BIGGER, HEALTHIER, MORE POTENT PLANTS FASTER

ECOGROW & ECOBLOOM

COMPLETE PLANT NUTRIENTS

SCIENTIFICALLY FORMULATED TO MAXIMIZE GROWTH AND QUALITY WITH SOIL OR HYDROPONIC GROWING MEDIUMS.

FOUR DIFFERENT FORMULAS — NOW AVAILABLE — TO COVER ALL GROWING CONDITIONS AND STAGES OF MATURITY.

N-P-K
10-8-14 — ECOGROW STANDARD, FOR MOST PLANTS AND YOUNG PLANTS UNDER MEDIUM LIGHT AND TEMPERATURE
15-7-12 — ECOGROW "S," MORE NITROGEN FOR MORE FOLIAGE AND FASTER GROWTH, SUBTROPICAL FORMULA
20-6-12 — ECOGROW "M," 20% AVAILABLE NITROGEN FOR TROPICAL PLANTS OR FAST-GROWING PLANTS, BRIGHT LITE
3-35-10 — ECOBLOOM, LOW N' HIGH PHOSPHOROUS PROMOTES FLOWERING, RESIN PRODUCTION AND MATURITY WHEN THEY'RE READY! MAXIMUM POTENCY AND QUALITY ON MATURE PLANTS!

- ALL ECOGROW FORMULAS CONTAIN EVERY MAJOR AND TRACE ELEMENT NEEDED BY YOUR PLANTS, pH ADJUSTED & BALANCED!
- ECONOMICAL, ONE POUND OF ECOGROW OR ECOBLOOM MAKES UP TO 96 GALLONS OF HIGH-POTENCY PLANT NUTRIENTS!
- EASY TO USE, 1-2 TSP. PER GALLON OF WATER, FEED NORMALLY. CAN BE BROADCAST DRY AROUND PLANTS, WATERED IN.
- PROVEN! ECOGROW, SINCE 1972 — AN INDUSTRY STANDARD OF EXCELLENCE FOR THE DISCERNING GROWER, WORLDWIDE!

ECOGROW CAN NOW BE ORDERED FACTORY-DIRECT! VISA, MASTER CHG. U.P.S.-C.O.D. ACCEPTED!
8 Oz. BOTTLE, ECOGROW STD., "S" or "M" – $3.25 Ea. 1 Lb. BOTTLE – $4.98 Ea.
8 Oz. BOTTLE, ECOBLOOM – $3.49. 1 Lb. BOTTLE – $5.98 Ea.
5 Lb. BULK ECOGROW, "S" or "M" – $16.60 Ea. 10 Lb. – $28.10 Ea. 25 Lb. – $61.50 Ea.
5 Lb. BULK ECOBLOOM – $21.00 Ea. 10 Lb. – $35.90 Ea. 25 Lb. – $78.50 Ea.

BULK DISCOUNTS AVAILABLE

—HYDROPONIC SYSTEMS—
WICK SYSTEMS — 18" LONG $22.50 EA. 24" — $24.95 Ea.
AUTOMATIC GRAVITY — FLOW (5 Sq. Ft.) **$79.95**

METAL HALIDE (H.I.D.) & HALOGEN LIGHTING

150 W. HALIDE — 34,000 LUMENS **$140.00**
1000 W. HALIDE — 125,000 LUMENS **$199.95**

40 PAGE HYDROPONIC CATALOG — FREE
★ 1987 EDITION, COMPLETE & INFORMATIVE ★

DEALERSHIP INQUIRIES INVITED — USE LETTERHEAD!

TELEPHONE ORDERS ACCEPTED – CALL ECO TOLL-FREE
1-800-426-6937 (IN WA., CALL (206) 523-9300, 525-4784
PLEASE MENTION THIS AD WHEN ORDERING

PRICES LISTED DO NOT INCLUDE POSTAGE & HANDLING. U.P.S. SHIPPING CAN BE SENT C.O.D.

SEND TO: **ECO ENTERPRISES**
DEPT. E, 2821 N.E. 55TH ST.
SEATTLE, WA 98105

PLEASE SHIP ME: _____

NAME _____
ADDRESS _____
CITY _____ STATE ZIP
VISA or MASTER CHG. # _____ EXP. DATE

POTTING SOIL

continued from page 77

Several mixes (3, 5, 7, 8, 10) had pH measurements well below the reported acceptable range for growing plants in artificial media, and two products had pH values above 7.0. Soluble salts were at significantly higher levels than the generally accepted maximum of 2.0 dS/m in six mixes, and in four products were at levels that could cause serious injury to many plant species (mixes 4, 5, 8, 10).

Concentrations of the nutrient ions sampled indicated that more than one ion contributed to the high salts in a given mix. The overall nutrient status of these potting soils varied widely from deficient to nearly excessive. Of particular importance were the ranges of the macronutrients nitrogen, phosphorous, and potassium.

Organic matter percentages ranged from about 38 to over 95 percent with a majority of the mixes having over 50 percent concentrations. There was no consistent relationship between the percentage of organic matter and pore space in these mixes.

In summary, a number of the products evaluated showed unsatisfactory values for more than one chemical property (mixes 3, 5, 8, 19). Soluble salts and pH levels were the primary problems. Since these conditions cannot be correlated to stated mix ingredients, it is likely that the poor chemical performance results from the manufacturer's total formulation process and not from the raw ingredients listed on the package.

GERMINATION AND GROWTH

Samples of each potting soil mix were placed in 24 one-inch cells (four replicates of six cells) in a Speedling flat, and one tomato seed (cv. 'Bigset') was placed in each cell for observation of germination and growth rates. A sample of the standard UC greenhouse soil mix (50 percent sand, 25 percent shredded bark, 25 percent Canadian peat moss, plus a nutrient mix) was included in this trial for comparison.

The flats were overhead-watered, covered with clear plastic, and placed in a warm greenhouse. As germination proceeded, the plastic was removed, and the flats received overhead irrigation of tap water as needed for the remainder of the experiment. Germination was recorded after 14 days. After one month, plant shoot lengths were measured and overall seedling and root-system vigor evaluated.

Germination percentages ranged from

continued on page 83

Now you can love 'em and leave 'em.

WE GUARANTEE IT!

The fact is, WATER GRABBER™ granules act as tiny reservoirs. They hold up to 500 times their weight in water. Just add these safe, non-toxic granules to the soil of ANY indoor or outdoor plant. Then you can water, (even fertilize), go away for serveral weeks and let WATER GRABBER™ care for your plants!



"Thanks to WATER GRABBER,™ I can water my temperamental ferns and exotic plants and go on vacation with a clear conscience".

Introductory Trial Offer!
Send $2.99 plus $1.00 for shipping & handling. Offer includes five 4-gram packets assembled on information card.



WATER GRABBER™ granules swell when you water, which "shakes" or aerates the soil, encouraging root growth. Then they slowly release 95% of the water. It's water on demand for your plants. And those who enjoy watering frequently don't have to worry. With proper drainage, WATER GRABBER™ prevents waterlogging of the roots.

WATER GRABBER™ is just as effective for outside flower beds and vegetable gardens. The granules can even be pre-mixed with water soluble fertilizer. WATER GRABBER™ gradually releases both water and fertilizer as needed. (It also makes other water soluble nutrients in the soil more readily available to roots.)

WATER GRABBER,™ a longstanding commercial trade secret, has been tried and proven by major U.S. and European landscapers. Now it's finally available to consumers. So if you love your plants –get WATER GRABBER.™ Then you can safely love 'em and leave 'em and keep 'em healthier and greener. One small packet can absorb up to a quart of water! Five 4-gram packets for only $2.99 let you care for ten 6"-pot plants.

SATISFACTION GUARANTEED

WATER GRABBER™ is guaranteed for 90 days. If you are not fully satisfied, please return the unused portion with an explanation to our Customer Service department and we will promptly make whatever adjustment is necessary.

FOR FASTER SERVICE

Call Toll FREE
1-800-334-0411 EXT. 1201

7 DAYS A WEEK – 24 HOURS A DAY!
Customer Service – 803-394-3586. Sorry, No Collect Calls!



SPECIAL OFFER!
"Love 'em And Leave 'em Poly/Cotton T-Shirt

Our poly/cotton blend T-shirt features attention getting "Love 'em And Leave 'em" lettering in front and "Water Grabber" graphics on the back. Trimmed in blue at the neck and sleeves this rugged T-shirt is full cut for comfort and body length, and retains its neat, crisp appearance and shape after many washings.

Available in unisex sizes: S, M, L, XL.

Only $8.99 plus $1.50 for shipping and handling.

(Please fill out this coupon and mail back today!)

YES! Please send me the following item(s);

- ☐ **Introductory Trial Offer!** Includes five 4-gram packets. Send $2.99 plus $1.00 for shipping & handling. The $2.99 will be credited towards any future purchase of 1 lb. or more.
- ☐ **One 4 oz. Pack,** only $8.99 plus, $1.50 shipping & handling.
- ☐ **Four 4 oz. Packs,** only $29.99 plus $3.00 shipping & handling
- ☐ **T-Shirt,** $8.99 plus $1.50 shipping & handling. Unisex Sizes: ___S, ___M, ___L, ___XL (S.C. residents add 5% sales tax.)

☐ Payment Enclosed ☐M/C ☐VISA Total $ _____

Card No. _____ Expires _____

Name _____

Address _____

City _____ State _____ Zip _____

Mail coupon to: Morris International Corporation
263 Kelley Street, Lake City SC 29560

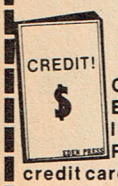
HT1087

Need NEW ID? PRIVACY?



How to get new ID from government sources. State ID's, Birth Certificates, Drivers Licenses, new SSN, Passports, Diplomas, Degrees by mail. Get better jobs. Cover negative records. Solve fingerprint problems. Disappear. Start life over!

#1 ☐ $15.95



Clear bad credit. End debts. Establish new credit. Receive all kinds of credit cards. Establish new credit. Clever credit maneuvers. All your "credit rights" and more!

#2 ☐ $9.95

HOW TO BEAT THE BILL COLLECTOR. Sharpest rules of the credit game. #3 ☐ $5.95

100 WAYS TO DISAPPEAR. Inspiration for privacy. #4 ☐ $3.95



Create your own privacy! Discover best low-profile methods. Financial privacy. Cash income opportunities. Banking alternatives. Secret hiding places. Avoid violence, surveillance. Hide your assets. Protect mail, telephone. Using other "names." Disguises. Codes. Hideouts. Deep cover. Multiple addresses, and more!

#5 ☐ $18.95



More on new identity. Legal name changes. How to disappear using legal changes. Adopt an alias. Laws on fake ID. "Take-over" ID. Codes used on drivers licenses, SSN, military SPN. Avoid passport problems. Do-ityourself ID. Sources of private-issue ID. Much more!

#6 ☐ $17.95

SPECIAL COMBINATION OFFERS
☐ Books 1-4 $29.95 ☐ All 6 Books $49.95

Total of Order: $_____
(Calif. residents add 6% sales tax) _____

Postage & Handling (Your choice) { Fourth Class ☐ 2.00 / FIRST CLASS ☐ 5.00

TOTAL: $_____

☐ Send current Book Catalog — FREE.

SEND TO:
Name _____
Address _____
City _____ State _____ Zip _____

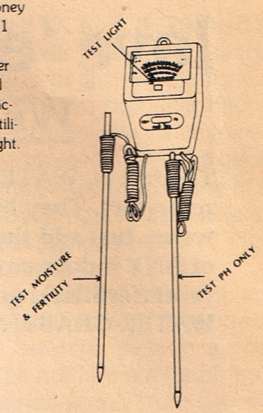
EDEN PRESS • 11623 Slater "E" • Box 8410-HT • Fountain Valley, CA 92728

SAVE YOUR PLANTS

No More Messy Soil Test Kits!

Save time and money with the new 4-in-1 Plant Meter. This amazing new meter accurately tests all these important factors: moisture, fertility, ph level and light. Test a plant in seconds. Works without batteries or electricity- nothing to wear out. Eliminate the guesswork in your garden.

Comes with a handy plant guide. A must for all serious growers.



ONLY $14.95

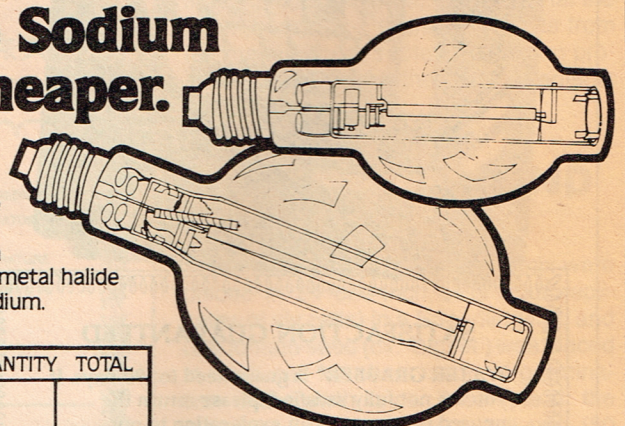
(plus $2 p&h.)
Save- get 2 for $30. post paid.
Money back guarantee Dealer inquiries welcome

M M Enterprises
P.O. Box 894
Malone, Wa 98559

Name
Address

☐ Payment enclosed
Charge my: ☐ Mastercard ☐ VISA
Date expires: _____
A ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐
Signature _____

Switching to High Pressure Sodium has never been easier. Or cheaper.



You asked for it. You got it. Energy Savers is pleased to announce high pressure sodium bulbs specifically designed for metal halide lighting systems.

Easier.

When your plants are ready to bud and flower, simply change the light bulb.

Cheaper.

Now, you don't have to invest in a whole new lighting system just to switch from metal halide to high pressure sodium.

		LUMENS	PRICE	QUANTITY	TOTAL
1000 WATT CONVERSION BULB	USES ONLY 940 WATTS— HAS ONE YEAR WARRANTY	140,000	$139.00		
400 WATT CONVERSION BULB	USES ONLY 360 WATTS— HAS ONE YEAR WARRANTY	50,000	$69.00		
GIANT 1500 PAGE CATALOG FEATURING BLOWERS, FANS, PUMPS, MOTORS AND 15,000 OTHER ITEMS			$5.00 (Refunded with first purchase from catalog.)		
				SUBTOTAL	
				CA RESIDENTS ADD 6.5% TAX	
				C.O.D. CHARGE ($2.00)	
				SHIPPING AND HANDLING	$3.00
				TOTAL	

See our other fine products on the inside front cover ad.

CALL TOLL FREE OR MAIL IN YOUR ORDER
(800) 421-2994 OUTSIDE CALIF.
(800) 538-3400 INSIDE CALIF.

NAME
ADDRESS
CITY STATE ZIP
DAYTIME PHONE

ACCOUNT NUMBER
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐
INTERBANK NO. ☐☐☐☐
MASTERCARD ONLY (THE NUMBER OVER YOUR NAME)
EXP. DATE MO. ☐☐ YR ☐☐
SIGNATURE FOR CHARGE ORDERS

The latest technology has created a unique, energy-saving sodium bulb that runs off of your existing metal halide ballast. Using less electricity and having a life expectancy of 24,000 hours, you can realize enough savings in energy, in just one year, to virtually pay for the bulb itself.

Order your own high pressure sodium bulb for your existing metal halide system today. And make the switch to sodium lighting without making the investment. Works with mercury vapor ballasts, too!

ENERGY SAVERS UNLIMITED, INC.

22138 S. VERMONT AVE. #C
TORRANCE, CALIFORNIA 90502

POTTING SOIL

TABLE 3. **GERMINATION AND GROWTH OF TOMATOES IN POTTING SOIL MIXES**

Mix ID	Germination @ 14 days	Average seedling height @ 1 month	Overall seedling vigor rating*
		cm	
1	79	10.6	Excellent
2	46	6.0	Poor
3	67	10.1	Excellent
4	79	6.3	Poor
5	71	6.7	Satisfactory
6	50	9.4	Good
7	92	7.1	Satisfactory
8	83	8.6	Good
9	83	6.3	Poor
10	92	8.1	Satisfactory
11	67	8.6	Good
12	67	6.3	Satisfactory
13	83	6.9	Satisfactory
14	87	4.7	Poor
15	83	7.6	Satisfactory
UC mix	83	6.8	Satisfactory

* Includes shoot and root development.

continued from page 80

46 to 92 percent (table 3). This lot of seed had 83 percent germination in a standard seven-day germination test, and half of the mixes evaluated met or exceeded the standard. The high salt content of mixes 8 and 9, surprisingly, did not reduce the germination of tomatoes, and neither did the low pH of mixes 7, 8, and 10. This suggests that the salts were readily leached and that tomato germination was not adversely affected by low pH.

Seedling growth varied widely. At the end of the one-month period, all the seedlings appeared somewhat deficient in nitrogen. The plants in mixes 2, 5, 7, and 10, however, appeared to have more than just a nitrogen deficiency, because they showed a great deal of purple coloration as well. Seedlings from mixes 2, 5, and 14 developed poor root systems, and in many instances, there were not enough roots to enable removal of a soil/root plug intact from the cell. Plants in mixes 12, 13, and the UC mix developed satisfactory root systems, while those in the remaining mixes developed excellent, vigorous roots. Good plants developed in mix 6, even though aeration and infiltration were relatively low. This mix had nearly optimum pH, salts, and phosphorous levels, which may have maximized the plants' capabilities under less than ideal soil conditions.

There was some indication of a link between root development and the air-at-container capacity for a given mix, as can be seen when comparing the plant growth in mixes 2, 5, and 14.

Overall, 11 of the potting soil mixes and the UC mix produced satisfactory tomato transplants. Several factors in both the physical and chemical properties of these mixes appear to be responsible for the

continued on page 89

DEALING? SEE HIGH TIMES CLASSIFIEDS (p. 78)

PEST CONTROLS MOTHER NATURE WOULD USE!

Ladybugs — use for control of aphids, other soft-bodied insects. 1 quart (15,000-18,000 ladybugs) covers an average garden.
Pkg. of 1,000 . . $ 5.50
1 quart $16.50
1 gallon $35.00

Predator Mites — use for spider mite control, 1 predator for every 20–25 spider mites (they'll breed from there). We have four greenhouse varieties; use a mix of at least two kinds for best results:
P. persimilis (regular strain, good to 75°, needs high humidity 75–80%+)
A. californicus (to 90°, 60–80% humidity)
P. longipes (to 100°+, 45–80% humidity)
P. persimilis HT strain (to 100°+, 45–80% humidity)
Prices are all the same, you can mix or match, min. 100 of a kind. For most greenhouses and indoor grow situations, we suggest A. californicus and P. longipes (unless specified we will send this mixture). For hot locations with lower humidity, use P. longipes and P. persimilis HT strain.
100 predators $16.50 (specify 1 variety)
200 predators $22.00 (specify what kinds
500 predators $33.00 or we'll send our mix)
NEW BULK PRICE: 1000 of one kind, $35 (specify)

Whitefly Parasites — destroy young whiteflies before they hatch. (These need temperatures of 70° or higher to be effective.)
500 parasites . $22.00

Yellow Sticky Whitefly Traps — These trap adult whiteflies, also gnats and other flying insects. No mess, folds out.
Pkg. of 3 . . . $4.00
12 or more . $1.10 ea.

10-Power Magnifier — ideal for examining plants, pests, includes a folding chromed case. **$11.00**

All prices postpaid, live delivery guaranteed. Write for **free** brochure on our natural pest controls.

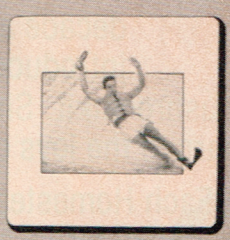
NATURE'S CONTROL
P.O. Box 35 • Medford, OR 97501
(503) 899-8318 & C.O.D.s

35mm That Comes Alive



©1986 SFW

Prints and Slides from the same roll

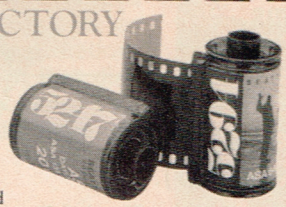


Seattle FilmWorks has adapted Kodak's professional Motion Picture film for use in your 35mm camera. Now you can use the same film — with the same microfine grain and rich color saturation — Hollywood's top studios demand. Its wide exposure latitude is perfect for everyday shots. You can capture special effects, too. Shoot it in bright or low light — at up to 1200 ASA. What's more, it's economical. And remember, Seattle FilmWorks lets you choose prints or slides, or both, from the same roll. Try this remarkable film today!

$2 INTRODUCTORY SPECIAL

☐ RUSH me two 20-exposure rolls of Kodak MP film for my 35mm camera. Enclosed is $2 for a 2-roll starter pack including Eastman 5247® and 5294.®

100% Satisfaction Guaranteed



NAME
ADDRESS
CITY STATE ZIP

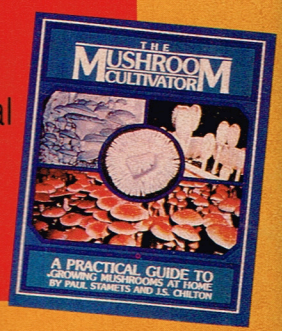
Mail to: Seattle FilmWorks
500 Third Ave. W., P.O. Box 34056
Seattle, WA 98124

Kodak, 5247 and 5294 are trademarks of Eastman Kodak Co. Seattle FilmWorks is wholly separate from the manufacturer. Process ECN-II.



Grow Wild Mushrooms Forever With The HOMESTEAD Mushroomkit

SECOND PRINTING.
THE MUSHROOM CULTIVATOR
by Stamets and Chilton. A virtual encyclopedia for serious mushroom growers, with over 400 pages of detailed information and photos.



A decade ago, the **Homestead Book Company** introduced the first **Psilocybe Cubensis** Mushroomkit. Since then thousands of people have learned the joys of cultivating your own mushrooms.

Each Homestead Mushroomkit includes a life time supply of fertile spores and two pounds of our rich high-yield compost. You also receive supplies, reusable tools, and ten pages of instructions from Bob Harris' book **Growing Wild Mushrooms.**

☐ Deluxe Psilocybe Cubensis Mushroomkit $50

☐ Spore Print . . . millions more $25
☐ THE MUSHROOM CULTIVATOR —Highly recommended $25
☐ GROWING WILD MUSHROOMS . . . Simple guide $6
☐ MAGIC MUSHROOM HANDBOOK . . . field guide $11

Total Enclosed _____
VISA _____ MC _____ Expires _____
Card Number _____
Signature _____

Name _____
Address _____

Washington residents add sales tax. Foreign add 20% US Funds. Money Orders processed fastest. Sold in fine stores, too.

HOMESTEAD

P.O. Box 31608 Seattle, Wa. 98103

(206) 782-4532

Dealer Inquiries Welcome

TOLL-FREE ORDER LINE
800-426-6777 CREDIT CARDS ONLY. (except WA, AK, and HI).
All others please call
(206) 782-4532.

BETTER BUSINESS BUREAU GREATER SEATTLE PLEDGED TO ARBITRATE

HOMESTEAD BOOK COMPANY
Serving You Since 1972.

WHEN RUN-D.M.C. were still in diapers, **James Brown,** the greatest rapper of all time, was talking shit like nobody's business. People tend to think he just had great hair or great clothes or great sweat, but what really made his later records so good was his incredible personal logic; a logic that denied the existence of a world outside his grooves. And if he sometimes seemed stupid—well, people also tend to forget that **James Brown** is a great comedian.

James Brown's five greatest raps:

by John Leland

"Dig this. Do you feel alright? Feel pretty good myself. Now look here, I got a little groovemaker, something I'd like to do, since we're here, we might as well get the best out of it. If it's all night it's alright. Looka here. Are you ready band? Dancers, are you ready? Are you ready audience? You ready Flames? You ready again? Building, is you ready, because we gonna tear you down! I hope the building can stand all this soul, because it sure got a lot coming on."

—from "I Feel All Right"
(Live at the Apollo)

"Now me and the boys just taking a walk, rapping a little and having a talk. In comes this chick with blouse and jeans and man, was she slick. But looka here, I wanna tell you one more time in case you can't see. Hey, Ray Charles, looka here. You see it wasn't the size that caught my eyes, but what made me realize, for goodness sakes, Stevie Wonder, did you see those cakes? Good God, do it again. Stevie, me and you been hanging out for a long time, brother, I know how you feel. Stevie told me one night, said man did you see those cakes? I was walking down the avenue one night and brother Ray Charles came over to me and said Brown, I don't know what you doing laying over there but did you see those cakes? Looka here. Everybody see those cakes."

—from "Look at Those Cakes"
(Look at Those Cakes)

"Look here. I gotta get up and do my thing. Okay, let me kinda move these things around here, so I can get up and do my thing, understand? Uh, can I really get into it? Can I get into the thing really? Like a sex machine? Moving? Doing it? Can I get into it? Can I get it all out of the thing? Are you ready to get into it? I'm gonna count it off then. One two three four."

—from "Get Up I Feel Like Being Like a Sex Machine"
(Sex Machine)

"You know, we're dealing with a very critical and crucial time, the most crucial and critical time that I have ever witnessed, being as young as I am, you know, we all don't want to say nothing else so we say as young as we are. Now I want to talk about the pronunciation and the realization. Now, the educators, they call it ESP, positive thinking, right? Some of the people across the pond call it vibes, vibrations, astrology and all those different things, you understand? But I call it: What it is is what it is, what it is is what it is."

—from "Mind Power"
(The Payback)

"You don't know what you're doing to me baby. You don't know what you're doing to me. I don't know either, baby, but I hope you keep on doing it 'cause it makes me feel good. Now wait a minute: You're standing out there with your hot pants on. But don't let nobody tell you how to wear your pants. Listen to me: Don't let nobody tell you how to wear your pants. 'Cause any way you wear 'em is alright with me. There's one thing I want to say to you right here, I want to rip off this little rap right here and say, baby be mellow, and be sweet, forget about that diet, and sit down and eat. Losing that weight you don't, 'cause the more you got the more I want."

—from "Bewildered"
(Revolution of the Mind)



RUSHES



● One vegetable meets another: Rick Moranis mugs it up with the insipid Audrey II.

by Jim Poling

TRUE STORIES
(Warner)
Good or bad word-of-mouth wouldn't have mattered since this David Byrne longhorn satire didn't stay in theaters long enough. The movie is really just a prank but a good one, and sees Texas more clearly than **GIANT** did. With Swoozie Kurtz and Spalding Gray.

BLADE RUNNER
(Criterian LD)

INVASION OF THE BODY SNATCHERS
(Criterian LD)
Criterian Laser Disc is re-releasing these two disparate science-fiction classics, and purists may want to take note. Both are being prepared in the letterbox form enabling the video viewer to see the whole Scope picture—though reduced to fit—as intended. **BLADE RUNNER**'s re-release also includes additional footage never-before-seen as well as an alternative ending?!

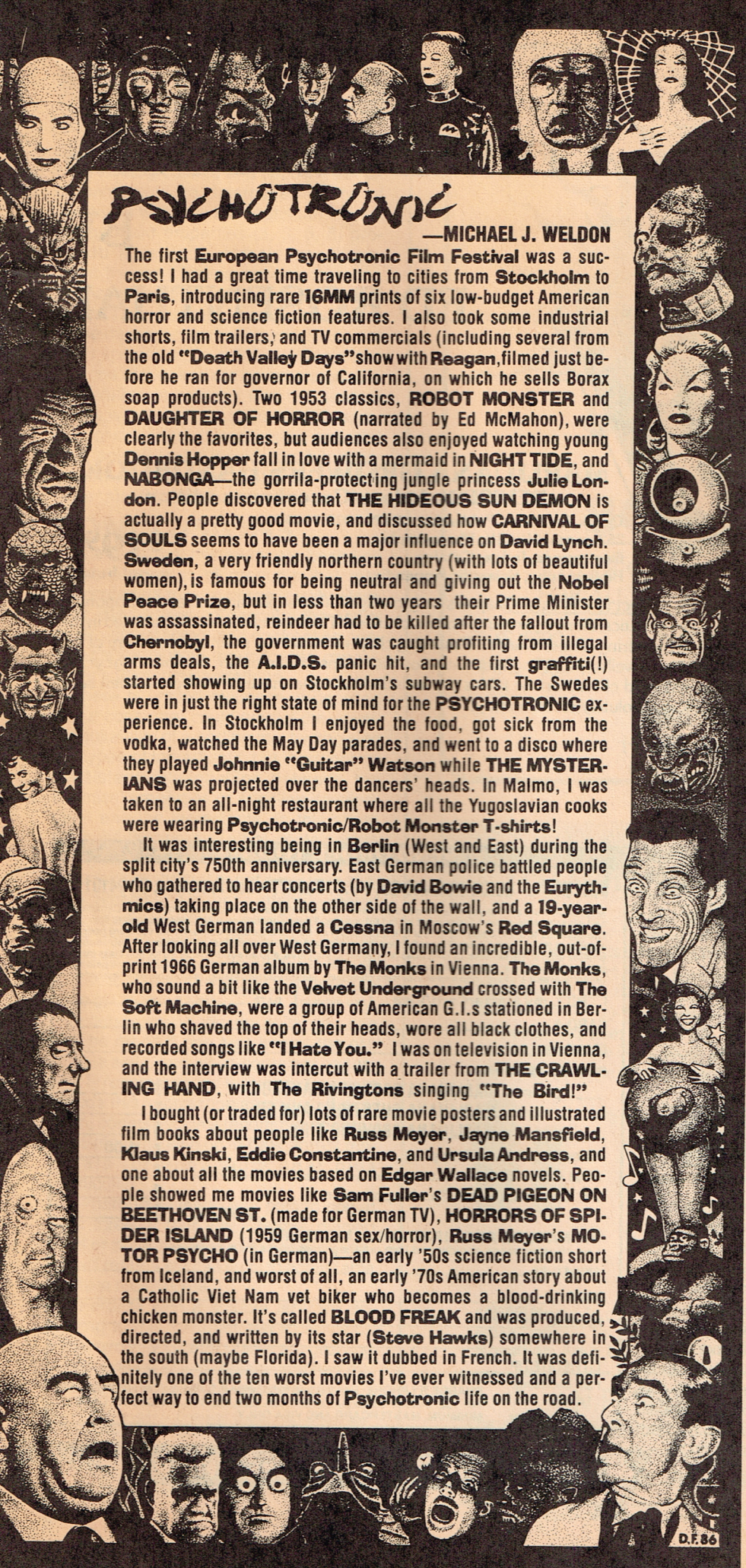
SOMETHING WILD
(HBO/Cannon)
The best comedy of last year featuring the hippest score and a tantalizing performance by Melanie Griffith as Lulu, the kind of woman men would gladly kill for. When she seduces yuppie Jeff Daniels, he discovers he just might have to. Jonathan Demme directed.

A FISTFUL OF DYNAMITE
(MGM/UA)
Peasant thief Rod Steiger gets talked into joining the Mexican revolution in Sergio Leone's wry and weirdly funny movie. Not as good as Leone's **ONCE UPON A TIME IN THE WEST** but better than his Clint Eastwood "DOLLARS" movies. Released in this country and edited as **DUCK, YOU SUCKER**, MGM/UA is releasing the complete 158-minute version.

NO MERCY
(RCA/Columbia))
An action picture working strictly by formula but some great set pieces, an ingeniously creepy villain, good-looking leads (Richard Gere/Kim Basinger), and steamy New Orleans locations make it a very good waste of 90 minutes.

THE STEPFATHER
(Embassy)
An underrated thriller that , once discovered, became overrated. Terry O'Quinn is very good as a psychotic who marries into families and slaughters them if they don't live up to his expectations. A couple of cheap referrences to Hitchcock's **THE BIRDS** and **PSYCHO** are thrown in.

LITTLE SHOP OF HORRORS
(Warner)
Clumsy, incoherent, and over produced new musical comedy based on Roger Corman's 1960 cheapie (which has recently been colorized to no great disadvantage). Surprisingly good reviews didn't help it much at the box office. Good cast, altered ending, and unmemorable score.



PSYCHOTRONIC

—MICHAEL J. WELDON

The first **European Psychotronic Film Festival** was a success! I had a great time traveling to cities from **Stockholm** to **Paris**, introducing rare **16MM** prints of six low-budget American horror and science fiction features. I also took some industrial shorts, film trailers, and TV commercials (including several from the old **"Death Valley Days"** show with **Reagan**, filmed just before he ran for governor of California, on which he sells Borax soap products). Two 1953 classics, **ROBOT MONSTER** and **DAUGHTER OF HORROR** (narrated by Ed McMahon), were clearly the favorites, but audiences also enjoyed watching young **Dennis Hopper** fall in love with a mermaid in **NIGHT TIDE**, and **NABONGA**—the gorrila-protecting jungle princess **Julie London**. People discovered that **THE HIDEOUS SUN DEMON** is actually a pretty good movie, and discussed how **CARNIVAL OF SOULS** seems to have been a major influence on **David Lynch**. **Sweden**, a very friendly northern country (with lots of beautiful women), is famous for being neutral and giving out the **Nobel Peace Prize**, but in less than two years their Prime Minister was assassinated, reindeer had to be killed after the fallout from **Chernobyl**, the government was caught profiting from illegal arms deals, the **A.I.D.S.** panic hit, and the first **graffiti**(!) started showing up on Stockholm's subway cars. The Swedes were in just the right state of mind for the **PSYCHOTRONIC** experience. In Stockholm I enjoyed the food, got sick from the vodka, watched the May Day parades, and went to a disco where they played **Johnnie "Guitar" Watson** while **THE MYSTERIANS** was projected over the dancers' heads. In Malmo, I was taken to an all-night restaurant where all the Yugoslavian cooks were wearing **Psychotronic/Robot Monster T-shirts**!

It was interesting being in **Berlin** (West and East) during the split city's 750th anniversary. East German police battled people who gathered to hear concerts (by **David Bowie** and the **Eurythmics**) taking place on the other side of the wall, and a **19-year-old** West German landed a **Cessna** in Moscow's **Red Square**. After looking all over West Germany, I found an incredible, out-of-print 1966 German album by **The Monks** in Vienna. **The Monks**, who sound a bit like the **Velvet Underground** crossed with **The Soft Machine**, were a group of American G.I.s stationed in Berlin who shaved the top of their heads, wore all black clothes, and recorded songs like **"I Hate You."** I was on television in Vienna, and the interview was intercut with a trailer from **THE CRAWLING HAND**, with **The Rivingtons** singing **"The Bird!"**

I bought (or traded for) lots of rare movie posters and illustrated film books about people like **Russ Meyer**, **Jayne Mansfield**, **Klaus Kinski**, **Eddie Constantine**, and **Ursula Andress**, and one about all the movies based on **Edgar Wallace** novels. People showed me movies like **Sam Fuller**'s **DEAD PIGEON ON BEETHOVEN ST.** (made for German TV), **HORRORS OF SPIDER ISLAND** (1959 German sex/horror), **Russ Meyer**'s **MOTOR PSYCHO** (in German)—an early '50s science fiction short from Iceland, and worst of all, an early '70s American story about a Catholic Viet Nam vet biker who becomes a blood-drinking chicken monster. It's called **BLOOD FREAK** and was produced, directed, and written by its star (**Steve Hawks**) somewhere in the south (maybe Florida). I saw it dubbed in French. It was definitely one of the ten worst movies I've ever witnessed and a perfect way to end two months of **Psychotronic** life on the road.

D.F. 86

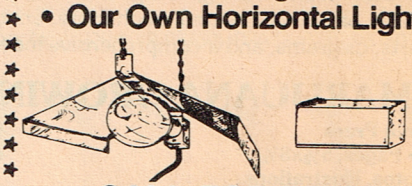
NOW OPEN

EAST COAST HYDROPONICS

INDOOR / OUTDOOR GROWING SUPPLIES STORE & MAILORDER

We Stock:

- **1000 w Super Metal Halide $199**
- 1000 w H.P. Sodium
- 400w Halide & H.P. Sodium
- Hydroponic Systems • Books
- Light Movers • Drip Watering
- **ORGANIC BAT GUANO**
- Soilless Mixes • PH Meters
- Containers • Grow Bags
- CO_2 SYSTEMS • Water Bug!
- ECO & DYNA Grow • Pumps
- Sta-Wet • Timers • Tools
- Organic Fertilizer
- **WORM CASTINGS**
- Exhaust Fans • Reflective Mylar
- White Plastic • Air Filters
- Negative Ion Generators
- **ROCKWOOL Distributor**
- **Seabird Guano**
- **Horizontal Professional Greenhouse Lights**
- **Our Own Horizontal Lights**



CALL FOR PRICES & FREE CATALOGS

USA (800) 255-0121

N.Y. (718) 727-9300

Write or visit

EAST COAST HYDROPONICS

432 Castleton Avenue

Staten Island, New York 10301

Free parking • 5 minutes from interstate



THREE NEW BOOKS BY ED ROSENTHAL

MARIJUANA GROWERS HANDBOOK
REVISED - Indoor/Greenhouse edition

Quick American Publishing #ISBN 0-932551-00-9
252 pages, 5½ x8½. Photographs, illustrations, Index, Catalog, Bibliography, Scientific Appendix

$19.95 spiral bound

It includes the latest, most detailed research done on this subject to this date. Chapters on growing methods, planting mixes, hydroponics, watering, manicuring, sexing, lights, CO_2, nutrients, pests, genetics, cloning, pruning, and much more. Two new chapters are included in the revised edition—Growing in the Ground, and Advanced Flowering. The Advanced Flowering chapter includes a scientific summary of the flowering characteristics of virtually all varieties of cannabis, as well as providing information on the means to manipulate the flowering cycles. Reference maps, lighting charts, photoperiod graphs and seed characteristic tables are included here that have never before been seen anywhere in the literature. The information in this book is absolutely revolutionary!

MARIJUANA QUESTION? Ask Ed

Quick American Publishing
275 pages, 5½x8½.
Photographs, index, charts, diagrams.

$19.95 spiral-bound

The new book from Ed was inspired by his popular, long-running "Ask Ed" column in High Times. Each answer has been revised and updated to include the latest available horticultural information on the topic. A virtual encyclopedia of marijuana information, each question and answer has been thoroughly referenced so that a quick review of the Table of Contents or the Index provides information required to answer every conceivable marijuana question ever asked in Ed's column. Chapters on: cultivation practices, varieties, genetics, pests, curing, CO_2, smoking, eating, the legal aspects of cultivation, and much more. Loaded with photos, charts, diagrams, and a comprehensive index.

MARIJUANA GROWING TIPS

Ronin Press
125 Pages, 5½x8½.
Photos, illustrations.

$15.95 spiral-bound

Contains articles originally published in High Times which Ed rewrote especially for this book. This volume has many facets: it's a cultivation book with specific growing information for indoor and outdoor gardeners (chapters on soils, lights, CO_2, cuttings, choosing seeds). It's also a travel book, describing cultivation and curing techniques practiced all over the world, including Morocco and India. And it contains the most complete interview ever given by Dr. Carlton Turner who is currently Drug Policy Advisor for the Reagan Administration but who ran the government-sponsored pot farm at the University of Mississippi in 1981. This interview contains important information about cultivation, THC chemistry, and government policies regarding marijuana.

SEND ORDER TODAY!

Send Check or Money Order To: **QUICK TRADING CO. • P.O. Box 477 • San Francisco, CA 94101**

All products are sent to you in a plain brown mailer. Our mailing list is completely confidential. Canadian and other foreign orders: funds must be in U.S. dollars. There are additional shipping charges to foreign countries, so to avoid delay, write first to inquire about air mail or expedited delivery. As a standard policy, we ship in the U.S. via United Parcel Service. We must have a full address for UPS delivery. If you cannot provide a full street address, or UPS does not deliver to your area, add an additional $2.00 for first class mail. Sorry, but no COD's. For quickest service, send a money order or use your credit card, since orders paid by personal check are held up to 4 weeks for bank clearance. Send $1.00 for catalog, refundable with first order.

☐ **BILL my MasterCard/Visa** ($20 credit card minimum) **EXPIRATION DATE** _____

CARD # _____

Signature _____

PLEASE SEND ME:

_____ COPIES: MARIJUANA GROWERS HANDBOOK	$ _____
_____ COPIES: MARIJUANA QUESTION? ASK ED	$ _____
_____ COPIES: MARIJUANA GROWING TIPS	$ _____
Handling & UPS Shipping	$ 4.00
First Class Mail: Add $2.00, optional if you can't provide street address	$ _____
6% California Sales Tax if applicable	$ _____
TOTAL	$ _____

SIGNATURE REQUIRED ON ALL ORDERS
I am 18 years of age or older and I am ordering these books for my own use.

SIGNATURE _____

NAME _____

ADDRESS (NO PO BOXES FOR UPS) _____

_____

CITY/STATE/ZIP _____

I am enclosing:
[ ] Check
[ ] Money Order

CHARGE BY PHONE: Call toll-free nationwide in California call 800-428-7824, ext. 102. Outside California call 800-428-7825, ext. 102. **$20 CREDIT CARD MINIMUM, MASTERCARD AND VISA ONLY.**

master charge

WHOLESALE INQUIRIES INVITED

VISA

POTTING SOIL

continued from page 83

outcome, but no consistent relationships between ingredients and seedling development could be determined. Some of the mixes with less than optimum ratings of important properties (3, 5, 6, 8) produced acceptable tomato seedlings. From this very limited growing test, one cannot determine how seeds and seedlings of other crops would develop in these mixes, nor can the performance of other species that would be transplanted into one of these mixes be estimated. It is reasonable to assume that the uses of mixes with less than optimum pH, aeration, or drainage characteristics and with high soluble salts would result in poor growth of a wide range of plant species under most conditions.

CONCLUSIONS

The results of this study are based on single purchases of products that may not represent their average quality. However, the findings do describe the actual quality control problems confronting consumers and justify the following conclusions and recommendations.

There is limited evidence suggesting that a consumer could predict the physical suitability of a potting mix by knowing the types of ingredients, but there are no consistent relationships between the chemical properties or seedling development and the ingredients. In this study, pH, soluble salts, and air-at-container capacity appeared to be the properties that determined whether or not a mix was suitable. Since none of these attributes could be related consistently to the ingredients used, information currently required on package labels is inadequate for a consumer to use in predicting the performance of a potting soil.

Accurate decisions on suitability can only be made if one also knows the pH, soluble salts, and air-at-container capacity. It is recommended that manufacturers include this information as well. In the interim, consumers are recommended to:

- Select mixes high in bark, forest materials, or sphagnum peat plus vermiculite.
- Thoroughly leach any potting soil at least three or four times before placing seed or plant material in the mix. Leaching will reduce soluble salts to acceptable levels in most mixes.
- Fertilize with a soluble fertilizer according to the manufacturer's directions within two weeks after plants are growing in new potting soil to replace leached nutrients and those taken up by the plants.

Dennis R. Pittenger is Extension Urban Horticulture Specialist, University of California, Riverside. *The author acknowledges the assistance of Douglas Holt, Staff Research Associate, and Isfendiar Ramadan, Manager, Diagnostic Laboratories, UC Riverside.*

Reprinted from California Agriculture. ●

INDOOR SUN SYSTEMS
61 ALLWOOD AVENUE
CENTRAL ISLIP, NY 11722
FOR ORDERS OR FREE CATALOG CALL
TOLL FREE - NATIONWIDE
800-999-EAST
OR (3278)
800-999-FAST
MasterCard COD VISA
EITHER ONE WILL GET YOU FASTEST DELIVERY
FOR ALL YOUR INDOOR GARDENING SUPPLIES

MS 1000	$199.00	CO_2 UNIT	$159.00
HPS 1000	$264.00	MINI LITES	$110.00

VISIT OUR SHOWROOM
Hours: M-F 10-5 Sat. 10-2

STIMULANTS, DIET AIDS
AND MORE

Ephredrine Tablets ($45/3000, $20/1000, $5/100): Maxi-White Thin or Thick, Maxi-Pink Heart, Maxi-Yellow.
Caffeine Tablets ($60/3000, $25/1000, $6/100): Large Pink Heart, White w/Green Specks, 357 Magnums, White 20/20, Pink 20/20, Blue 30/30, White Cross.
Caffeine Capsules ($90/3000, $35/1000, $8/100): Blue & Clear, Green & Clear, Small Black, Large Black, Small Yellow, Large Yellow.
Diet Aids: Grapefruit Diet **($9.95/60)**, Super Night Diet **($8.95/60)**, PPA Diet **($7.95/100)**



Sleep Aids: L-Tryptophane **($8.45/60)**, Soma'pap **($8.95/100)**
FlashCaps™: Trial Packet **($1.29)**, 30 Unit Bottle **($9.95)**, 90 Unit Bottle **($19.95)**
Novelties: Adult Key Chains **($7.95/Ea, $29.95/12)**

N.F. SUPPLY, INC.
1920 N. Vancouver • Portland, OR 97227
In Oregon (503) 282-8884
Toll Free 1-800-342-6555

- No Sales To Minors
- Offer Void where Prohibited By Law
- Personal Checks Held 20 Days For Clearing
- Use Only As Directed
- Prices & Inventory Subject To Change Without Notice

• Shipping Paid On All Prepaid Orders (Please Include $2.50 Handling Fee On All Orders $25.00 Or Less.)

They said it couldn't be done,

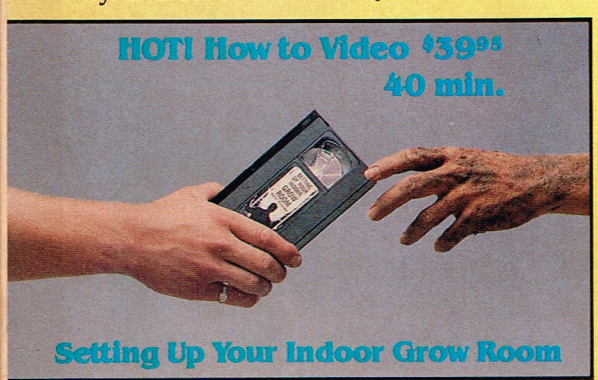


Because they couldn't do it!

But Paradise Hydroponics Did It Just For You! Take A Good Look . . .

ITEMS SHOWN

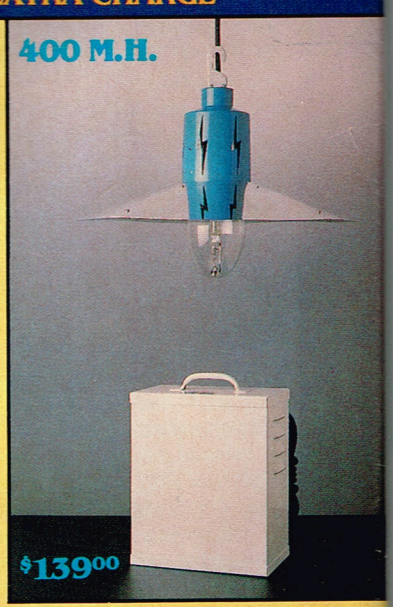
- 2 Arm Sun Circle $189.00
- 1000 Watt Halide 199.00
- 1000 Watt H.P.S. 267.00
- 8 Unit Hydroponic 293.00
- CO_2 Enrichment 139.00
- Dyna Grow or Bloom 1 Qt. 7.95



TEN DELUXE FEATURES AT NO EXTRA CHARGE

- ✓ Factory Installed Installation Hook
- ✓ Color Coded Fixture Housing
- ✓ Lightning Bolt Cut-outs For Maximum Cooling
- ✓ 100% Full Reflective Hood Made of Highly Polished Aluminum Alloy
- ✓ High Out-put Lamp
- ✓ 24 Ft. of 105° Rated 16/3 Cable
- ✓ Securely Mounted Easy Grip Handle
- ✓ Durable White Electro Coat Finish
- ✓ Dyna Flow Louver Placement to Maintain a Cooler Operating Temperature
- ✓ High Quality Multitap Ballast

Absolutely the Finest Stock on Hand!



★ ORDER NOW ★

Call or Write
For Your FREE
Color Catalog

TOLL FREE (800) 332-GROW
IN CALIFORNIA (707) 445-5720

PARADISE HYDROPONICS
306 West Harris
Eureka, CA 95501

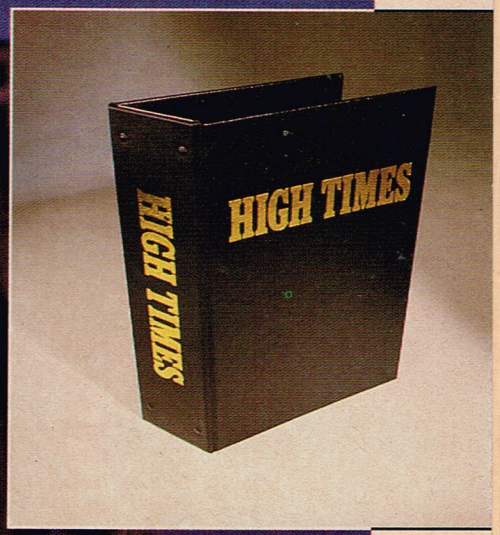
MasterCard

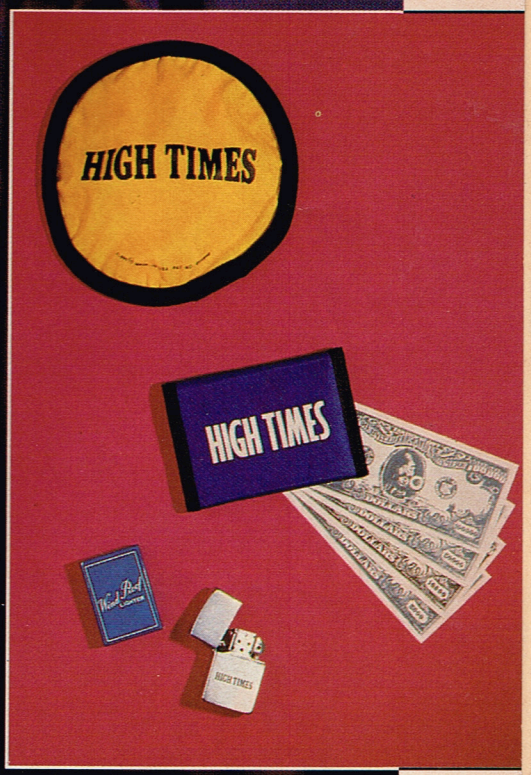
FAST DELIVERY

VISA

REMEMBER: If We Don't Have It, You Don't Need It!

NOTHING TO HIDE?!





PHOTOGRAPHY BY ANDRE GROSSMAN

CODE	Product	Quantity	Price	Cost
LT	High Times Lighter	_____	x $3.95 =	$_____
BD	High Times Binder	_____	x $9.95 =	$_____
BC	High Times Hat	_____	x $4.95 =	$_____
HTFF	High Times Flippy Flyer	_____	x $3.95 =	$_____
TB	High Times Tote Bag	_____	x $7.95 =	$_____
WT	High Times Wallet	_____	x $4.95 =	$_____
			Subtotal	$_____
			Postage & Handling	$ 1.95
			N.Y. Residents Add Sales Tax	$_____
			Total	$_____

Make check or money order payable to **HIGH TIMES.** Mail to: **HIGH TIMES Products, PO Box 1645, Grand Central Sta., New York, NY 10017. Please allow six to eight weeks for processing and delivery.**

Name _____

Address _____

City _____ State_____ Zip_____

STIMULANTS!

STIMULANTS		Price Per Bottle 1000	100
20. D&E 127™	250mg	$30.00	$6.50
21. Mole	325mg	30.00	6.50
22. 357 Magnum	357mg	35.00	7.50
23. 20/20	300mg	30.00	6.50
24. D&E 250™	250mg	25.00	6.50
25. D&E 225™	225mg	23.00	6.50
26. D&E 85/25™	110mg	18.00	5.00
27. D&E 190™	175mg	30.00	7.50
28. D&E 290™	325mg	35.00	7.50
29. D&E 260™	225mg	28.00	6.50
30. D&E 160™	175mg	25.00	6.50
31. D&E 500™	350mg	35.00	6.50
32. 30/30	300mg	30.00	6.50
33. D&E 200™	200mg	23.00	6.50
34. D&E 25/25™	110mg	15.00	5.00

Active Ingredient in above stimulants: Caffeine

CAUTION: Individuals under medical care should consult their physician.



35. **D&E 25™ Bronchiodilator:** Ephedrine 25 mg. For use in treatment of Asthma symptoms.
1000 Tablets - $18.00
100 Tablets - $7.50

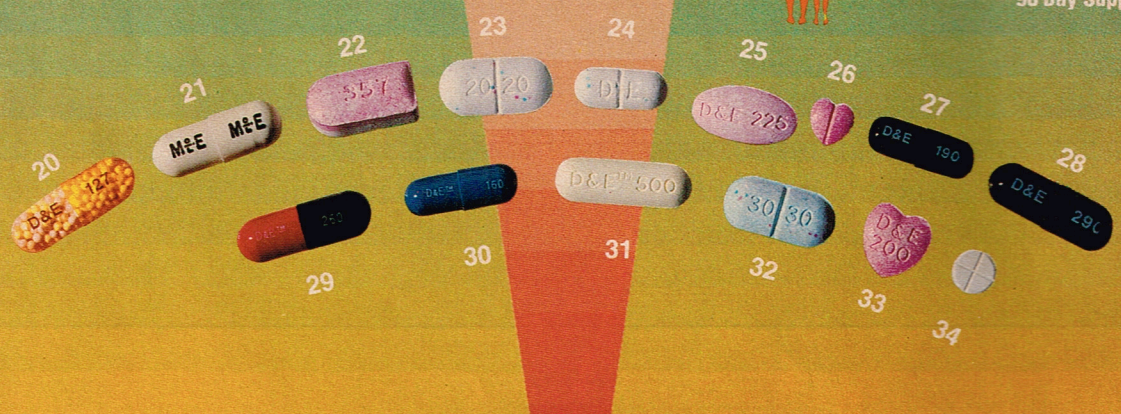
36. **On-The-Go™:** Natural Stimulant Guarana in a special blend for pep and energy the natural way.
90 Tablets - $9.98

DIET AIDS

37. **Weight-No-More™:** (3-A-Day) A special formula that curbs your appetite through the meal while reducing dieting fatigue. **1000 Capsules - $30.00**
100 Capsules - $7.50

38. **Diet Time™:** (1-A-Day) Only one capsule needed to continuously control appetite throughout the day.
90 Day Supply - $9.95

39. **The Milford Plan™:** Dieting Breakthrough! Two products that control your appetite and revitalize the essential needs of the body. Lose weight and maintain healthy nutrition.
90 Day Supply $19.95



CALL TOLL FREE: 1-800-221-1833

IN NEW JERSEY CALL (201) 838-5254

3-Easy Ways to Order:

1. **Charge It** — Use Visa or MasterCard.
2. **C.O.D.** — We ship today and you pay on delivery.
3. **Send Payment in Full** — Add $3.50 for Shipping and Handling.

(N.J. Residents add 6% Sales Tax - No Personal Checks, Please)

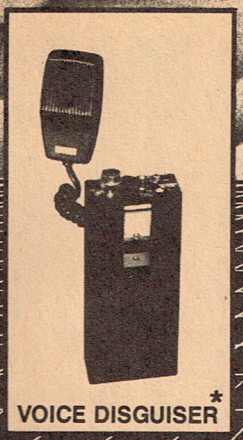
Specials

SAVE! - Order any 10 Bottles of 100 Tablets or Capsules of stimulants for only **$45.00**

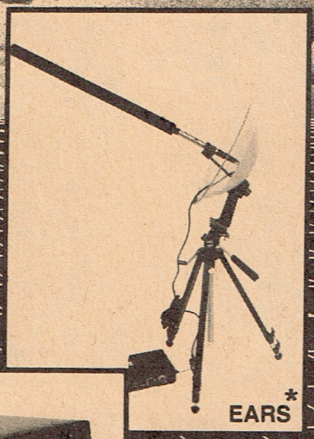
EXTRA DISCOUNT!
10% Off all orders for **On-The-Go** Natural Stimulant tablets.

D&E PHARMACEUTICALS, INC. - 206 Macopin Road, Bloomingdale, N.J. 07403

SURVIVAL OF THE FITTEST



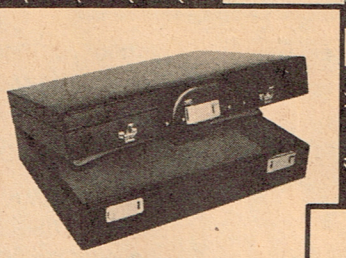
VOICE DISGUISER*



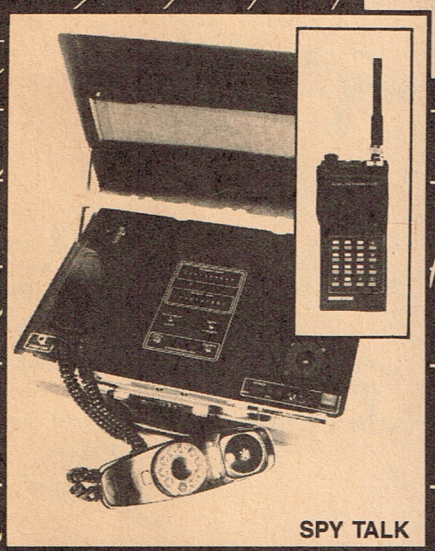
EARS*



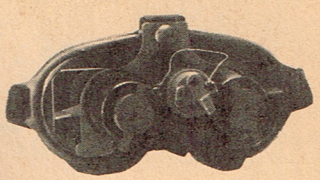
DETECT A TAP



BRIEFCASE RECORDER



SPY TALK



NIGHT VISION
INFRA-RED GOGGLES



BUST A BUG*

- Voice Disguiser:
  Works on any phone ..... $495.
- Detect-a-Tap
  ..... $495
- Spy talk encrypted scramblers and
  walkie talkies ..... *from* $1295
- Ears:
  long range microphones $649
- Briefcase Recorder
  Get it on tape $424
- Night Vision Infra-Red Goggles
  See in the dark ..... *from* $799
- Bust a Bug
  ..... *from* $349

* Actual item not shown

©COPYRIGHT 1987 ABAWC

HIGH TECH STRATEGIES TO KEEP YOU CLEAN

Don't stay unprotected! Build a "fortress of security" with sophisticated equipment that can travel easily to provide security everywhere you go. Make an appointment to see full line of communications, surveillance and personal defense equipment. Also available: Lie Detection, Bullet-Proof Clothing and Eavesdropper Nullifiers.

So why wait . . . Order our equipment directly or send the coupon back with $25, for our detailed catalog.

Anti-Bugging Anti-Wiretapping Corp. of America
630 Third Ave., New York, NY 10017 (212) 682-4731
1435 Brickell Ave., Miami, Fla. 33131 (305) 358-4336
9465 Wilshire Blvd., Beverly Hills, CA 90212 (213) 274-6256
5085 Westheimer Rd., Suite 3696, Houston, TX 77056 (713) 626-0007

Anti-Bugging Anti-Wiretapping Corp. of America
630 Third Ave., New York, NY 10017

Money orders or credit cards only. Add $4.50 for postage and handling.

Name _____

Address _____

Tel. signature _____

Item(s) _____

☐ Money order

☐ Credit Card #, Exp. date _____

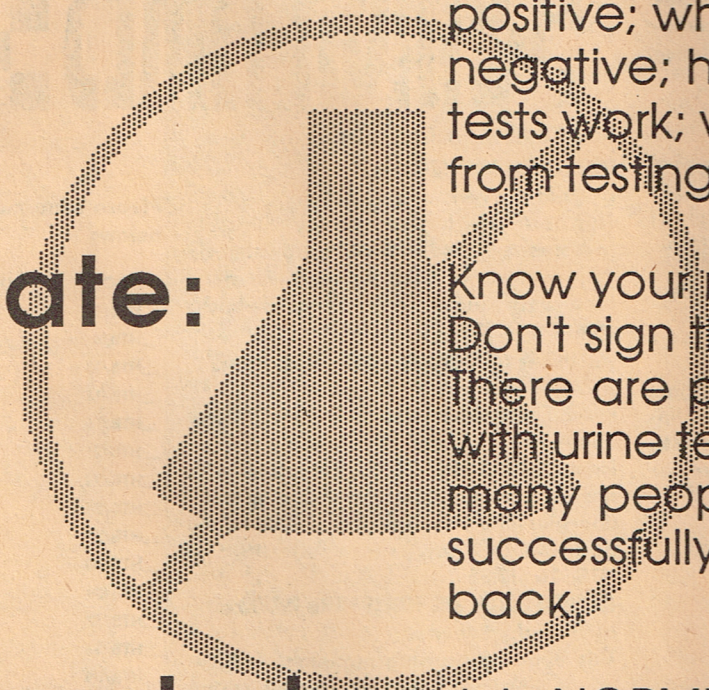
Prices effective for a limited time only

Had Enough of Urine Testing?

Join The Resistance!

Educate:

The public has questions. NORML provides answers. What is a false positive; what is a false negative; how do the tests work; who profits from testing... ?



Litigate:

Know your rights. Don't sign them away! There are problems with urine tests, and many people have successfully fought back.

Demonstrate:

Join NORML in NYC, October 24 to protest urine testing. Call NORML for details!

Join The Resistance
Join NORML!

2001 'S' Street, N.W.
Suite 640
Washington, D.C. 20009

(202) 483-5500

TOP 100

LAST MONTH

1. PINK FLOYD (41)
2. LSD (1)
3. SEX (86)
4. BILBO + FRODO'S BIRTHDAY (SEPT. 22)
5. MONEY (LOTS OF IT)
6. NAM MYO-HO REN-GE K-YO (28)
7. LED ZEPPELIN (22)
8. "X" JOINTS
9. THE FABULOUS FURRY FREAK BROTHERS
10. INDOOR GROW ROOMS
11. TRIPPING OUT AT THE NORTHVILLE INSANE ASYLUM IN MICHIGAN (ABANDONED)
12. VINNY
13. "DA KILLAH" BUDS
14. SEX WHILE TRIPPING
15. THE WORLD SERIES
16. KID'S RIGHTS
17. THE NATIONAL LAMPOON (32)
18. TRIPPIN' (35)
19. FREEDOM (57)
20. GRATEFUL DEAD (8) (THEY MELT IN YOUR MIND)
21. BILL THE CAT AND OPUS (BLOOM COUNTY)
22. ANGRY SAMOANS (15) LONG, DEEP, REFRESHING, SKULL-FUCKING
23. BONG HITS (5)
24. HALLOWEEN PARTIES
25. BEER (9)
26. SUBVERSIVE, INTELLECTUAL BOOKS
27. CANNABIS SATIVA
28. EZEKIEL 23 (6)
29. N.D.S.U.
30. DAVID ROBERT JONES TRANSLUCENT LETHARGY
31. (OKLAHOMA'S NUMBER ONE HARDCORE METAL MAGAZINE)
32. SHROOMS (24)
33. FRANK ZAPPA
34. STOP CONTRA AID (10)
35. DOIN' SHROOMS WITH MR. BUD MAN
36. TOWER MAGAZINES
37. AFTER MIDNIGHT (PROGRESSIVE RADIO-93Q FM)
38. LOVE (45)
39. HEP CAT
40. TRIPPIN' WITH THE GRATEFUL DEAD
41. EQUIDEMIUS (AN L.A. BAND)
42. LOSING YOUR VIRGINITY
43. ROCK'N'ROLL
44. DRUGS
45. SEX + DRUGS
46. BLOW JOBS
47. TORCH LIGHTING (LIGHTING FARTS)
48. SWEET DADDY
49. I HATE THE GRATEFUL DEAD
50. ISSHINRYU KARATE
51. NORML (26) (THE FORCE THAT'S WITH US)
52. JUDAS PRIEST
53. DUMP REAGAN (AND NANCY!!!)
54. GANJA SKATER (SKATEBOARDING)
55. PEACE
56. DEADHEADS
57. AC/DC
58. HEAVY METAL
59. FARKING
60. HENDRIX (99)
61. THE BILL OF RIGHTS
62. MOTORCYCLES
63. GRADUATING!
64. NEW YORK HARDCORE
65. JESUS (11)
66. WE WANT TO ROCK
67. NEVADA BIGFOOT ALE
68. SAYING NO ISN'T ENOUGH
69. NUKE NANCY!
70. DIXIE (STARS + BARS FOREVER)
71. POLITICS (SUCK)
72. HANK KIMBALL HE'S THE... NO, HE'S NOT THAT, HE WAS... NO, THAT'S MR. HANEY'S JOB... OH YEAH! HE'S THE COUNTY EXTENSION AGENT ON GREEN ACRES!)
73. METALLICA
74. FEEDING PIRANHAS
75. SMELLY, STINKY PANTIES
76. SINK BONGS
77. GREENPEACE
78. BEING A MAMMAL, DUDE!
79. FRONT ROW SEATS AND THAI JOINTS
80. THE ADDAMS FAMILY (COUSIN ITT IS SO CUTE!)
81. READING IN THE BATHROOM
82. FRISBEE DOGS
83. FUGLY (FUCKING UGLY)
84. THE DICKIES SUPER PSYCHEDELIC FARKING (FARTING WHILE FUCKING ON ACID OR SHROOMS WHILE LISTENING TO THE GRATEFUL DEAD DURING A FULL MOON)
85. RADAR JAMMERS (REMOTE SYSTEMS)
86. MENTORS RULE (THRASH BAND OUT OF FRISCO)
87. PEACE SELLS BUT WHO'S BUYING
88. DIVING (SCUBA, MUFF, ISKY, BRIDGE)
89. "IT'S GOOD TO BE THE KING"
90. "I SAY, SHE SAY, UP THE BUTT!" (COURTESY OF THE NEWLYWED GAME, JUNE 12, 1987)
91. MY SON + DAUGHTER
92. CHEVY TRUCKS (AIN'T NO TOYOTA, BOY!)
93. I DON'T KNOW (BUT IT'S NOT FRENCH HASH)
94. VACATION WITH AN 8-BALL
95. ASHES ON MY DOG (WE WROTE THE SONG)
96. HOWARD STERN (46)
97. TAKING SINSE (I KNOW THIS WILL BE THE ONLY ENTRY FOR THIS BUT IF YOU CAN, PUT IT ON THE LIST - A FRIEND OF MINE'S MOTHER ASKED HIM IF HE WAS
98. "TAKING SINSE" - BOB
99. CAPITALISM
100. ASK ED (DON'T WORRY, ED... YOU GOT ONE VOTE!)
I LOVE GAYLE MARTIN

PEACE, MAN!

'XCUSE ME, WHILE I KISS THE SKY!

TOP 100 BY HOLMSTROM + YOU

#1

#2

#3

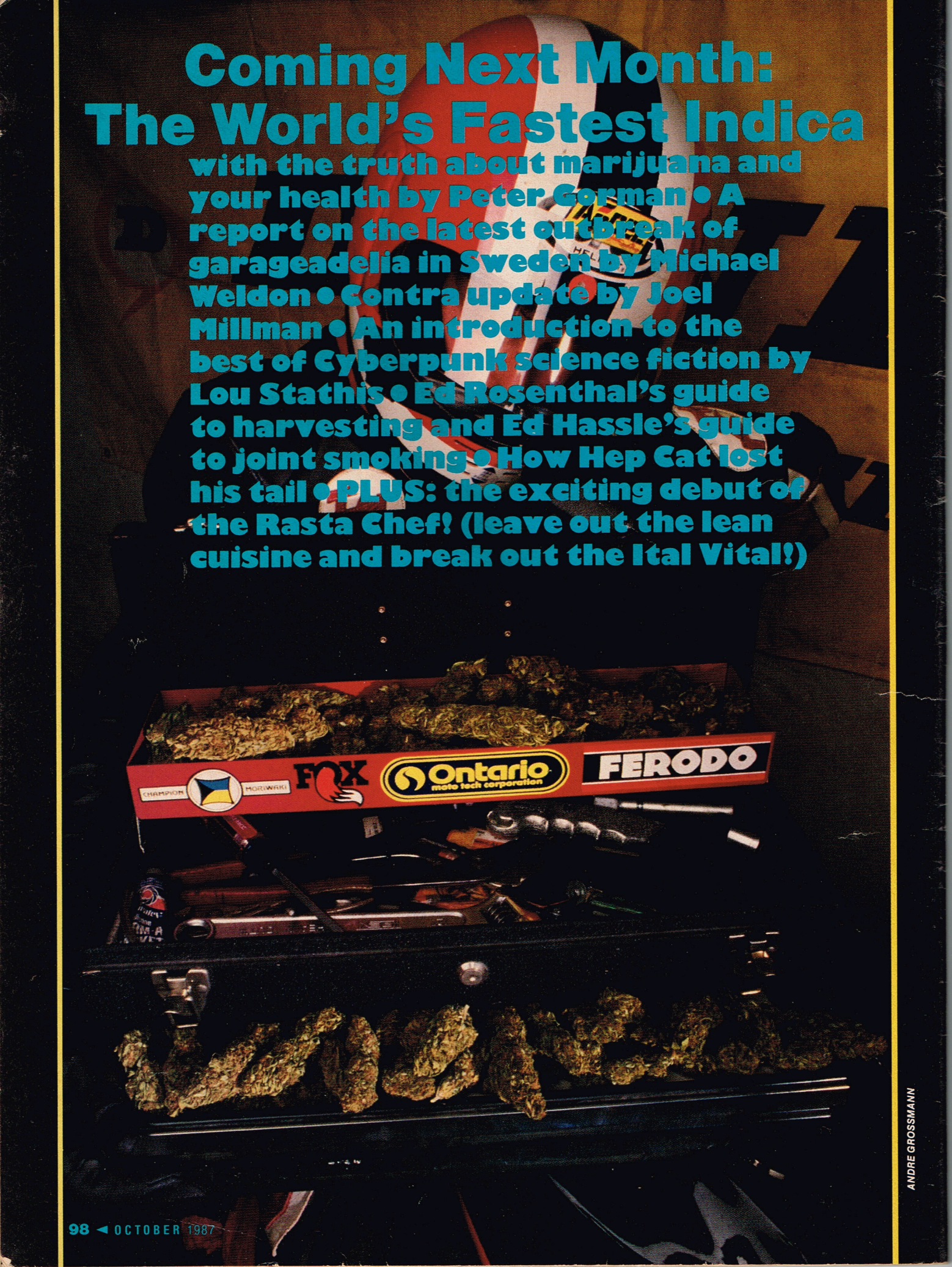
MAIL YOUR VOTE TO: HIGH TIMES TOP 100, 211 EAST 43RD ST., NEW YORK, N.Y. 10017

ACHTUNG! BALLOT BOX STUFFERS ARE **STRICTLY VERBOTEN** AS OF **NOW!!!**

WE WANT THE TOP 100 TO REPRESENT THE HIGH TIMES READERS' POINT OF VIEW. TOO MANY YUPPIE TYPES HAVE BEEN USING OFFICE EQUIPMENT + MONEY TO SEND IN VOTES! SO FROM NOW ON - IT'S **ONE** PERSON - **ONE** VOTE!!

Coming Next Month: The World's Fastest Indica

with the truth about marijuana and your health by Peter Gorman • A report on the latest outbreak of garageadelia in Sweden by Michael Weldon • Contra update by Joel Millman • An introduction to the best of Cyberpunk science fiction by Lou Stathis • Ed Rosenthal's guide to harvesting and Ed Hassle's guide to joint smoking • How Hep Cat lost his tail • PLUS: the exciting debut of the Rasta Chef! (leave out the lean cuisine and break out the Ital Vital!)



ANDRE GROSSMANN



THE ULTIMATE GROWING SYSTEM

Starts with the AQUAFARM™ modular system.



An expandable hydro system that allows you to start with a single module then add up to as many as 10. The unique AIRFLO™ pumping system creates growth and yield faster than any other modular system on the market. It is completely automatic and virtually problem free. Beware of imitations, they are not a genuine AQUAFARM.

Each system includes: GROROX™ growing medium, AIRFLO pumping system, General Hydroponics grow and bloom nutrients, pH test kit and complete instructions.

Priced at: single $58.00, four modules $198.00, six modules $295.00, eight modules $389.00 and ten modules $450.00. (Controller included in groups of four, six eight and ten module systems.)

Introducing the AQUAFARM AEROFLO™ system.

Diamond Lights and General Hydroponics is proud to offer aeroponic technology to the home grower. The AEROFLO system is the most advanced hydroponic growing system available in the world today! It has demonstrated extraordinary results in cloning and regenerating plants from cuttings. This system is capable of growing 10–24 clones to maturity in 6 weeks using the "Sea of Green Method."

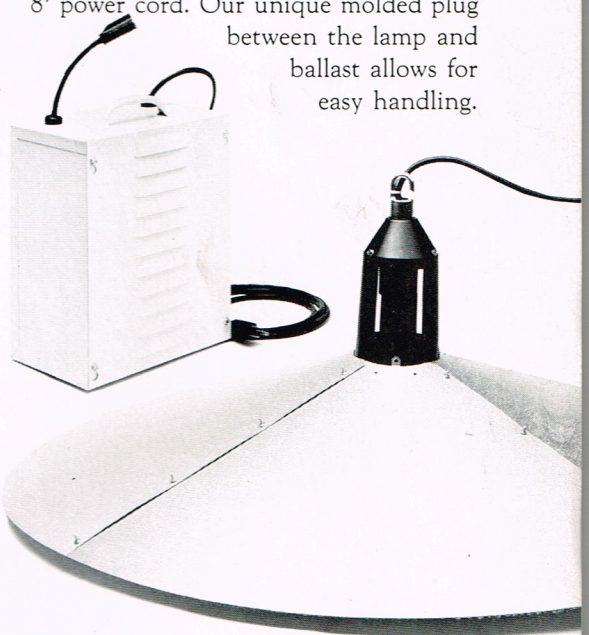
Each system includes: Rockwool growing medium, AIRFLO pumping system, General Hydroponics grow and bloom nutrients, pH test kit and complete instructions. Priced at: $289.00.

Top it off with the best lighting systems in the business.

Your choice of TEXTUREWHITE™ finish on the 21″ parabolic hood, 45″ standard hood, or our new 45″ parabolic hood. A whisper quiet heavy-duty ballast with a ventilated and double paneled enclosure for maximum cooling.



Also included: 20′ 600 V lamp cord, plus 8′ power cord. Our unique molded plug between the lamp and ballast allows for easy handling.



Priced at: 1000 Super Halide $198.00, 1000 H.P. Sodium $258.00, 400 Halide $138.00, 400 H.P. Sodium $188.00.

For ordering or free catalog call TOLL FREE

800-331-3994 or 415-459-3994.

We carry a complete line of growing accessories.

DIAMOND LIGHTS

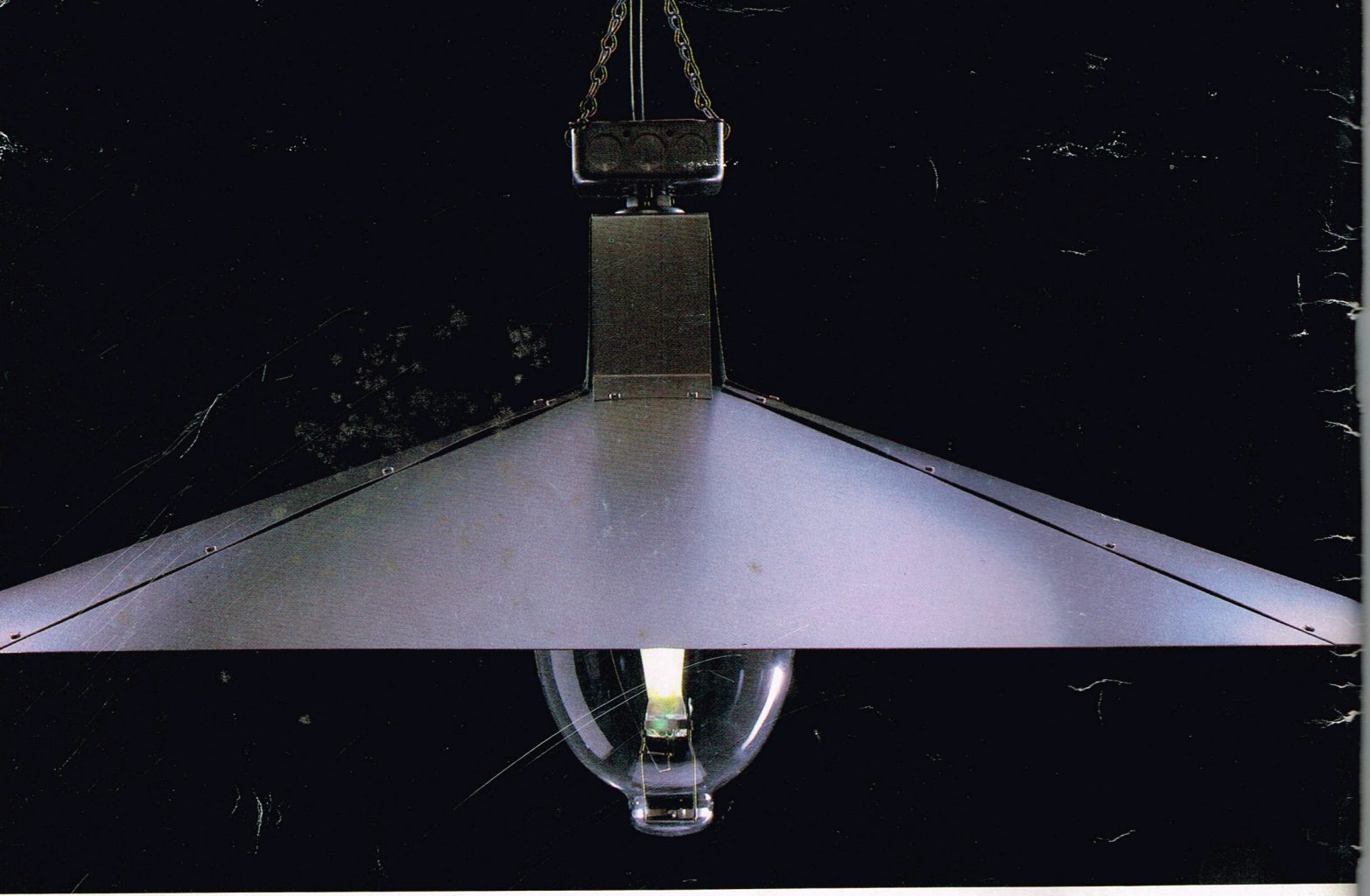
713 Mission Avenue • San Rafael, CA 94901

"We are different from the rest."

- Money order, credit card, COD orders shipped within 24 hrs.
- Prices do not include shipping.
- Dealer inquiries welcome.

master charge THE INTERBANK CARD

VISA



HOW TO BUY THE MOST SUPERIOR HALIDE SYSTEM IN THE WORLD.

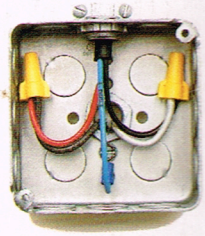
The process of choosing the right Halide system no longer has to be a game of Hide and Seek. For over four years we at Ram Enterprises have taken pride in producing the highest quality metal Halide indoor gardening systems. Each is complete with a full one year guarantee, not



to mention prices that make our competition squirm.

Our systems exceed and surpass bulb and ballast manufacturers' codes. Each system is equipped with a Jefferson or Advance low-noise ballast and capacitor, solidly mounted in a steel box uniquely designed to maintain the ballast and capacitor at their optimum running temperature. We also use high-temperature triple-jacketed 600-volt wire for your absolute safety. And as an added feature, pulse-rated bulb sockets of 5-KV.

If you've been buying anywhere else, you owe it to yourself to give us a call. You'll see that next to Ram Enterprises, all other Halide manufacturers are still in the Dark Ages.



Specifications and Prices

System A. 1000-watt Super Halide Sylvania MS 1000, clear or coated bulb, your choice of reflector (45 in. recommended) $199.00

System B. 1000-watt high-pressure sodium LU 1000 Sylvania bulb, your choice of reflector (45 in. recommended) $265.00

Bulbs only

MS 1000 BU clear Sylvania $62.00

MS 1000 C/BU coated $62.00

MS 400 Sylvania $45.00

High-pressure sodium LU 1000 Sylvania $69.95

High-pressure sodium LU 400 Sylvania $45.00

Complete line of accessories.

The no-bullshit Halide specialists.
Call 1-800-426-5577
In Washington 206-833-8280

System _____

Name _____

Address _____

City _____ State _____ Zip _____

TO ORDER: Send cashiers check, money order or C.O.D. order (send 20% deposit) to:

RAM™ ENTERPRISES division of M&R LIGHTING, INC.
420 Seattle Blvd.
Pacific WA 98047

VISA master charge THE INTERBANK CARD

Prices do not include shipping & handling.

With locations in Washington, Oregon and California. ©1983 M&R LIGHTING, INC.